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HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20040012
Agency Interest No. 2049

Mr. Mike Cohen
Senior Vice President & General Manager
BASF Corporation – Geismar Site
P. O. Box 457
Geismar, Louisiana 70734-0457

RE: Part 70 Operating Permit; Utilities Plant; BASF Corporation - Geismar Site; Geismar; Ascension Parish; Louisiana

Dear Mr. Cohen:

This is to inform you that the permit renewal and minor modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2013, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2008.

Permit No.: 2265-V5

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary
CSN: kap

cc: EPA Region VI

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
BASF CORPORATION - GEISMAR SITE, UTILITIES PLANT
PROPOSED PART 70 AIR OPERATING PERMIT RENEWAL AND MINOR MODIFICATION

The LDEQ, Office of Environmental Services, is accepting written comments on a proposed Part 70 Air Operating Permit renewal and minor modification for the BASF Corporation - Geismar Site, P.O. Box 457, Geismar, Louisiana for the Utilities Plant. The facility is located at 8404 River Road (Highway 75), Geismar, Ascension Parish.

BASF Corporation (BASF) operates a chemical manufacturing complex in Geismar, Ascension Parish, Louisiana (the Geismar Site). This proposed permit addresses only the air permitting requirements for the Utilities Plant which currently operates under Part 70 Air Permit No. 2265-V4 issued on November 22, 2000, PSD-LA-523(M-1) issued on September 12, 1987, and PSD-LA-613 issued on December 30, 1997.

In this proposed Part 70 Air Operating Permit for the Utilities Plant, BASF requested to renew its Part 70 Air Operating Permit and to make the following minor revisions to its current Part 70 Air Operating Permit:

1. To renumber all emission points with this permitting action;
2. To reconcile emissions to include minor fugitive emissions of carbon monoxide and ammonia;
3. To add an emissions cap, Wastewater Flare and Thermal Oxidizer Cap (Emission Point No. (EPN) WWT CAP01) to take into account periods where the Thermal Oxidizer (EPN WWT03) is out of service and the Wastewater Treatment Plant Flare (EPN WWT17) is in use as an alternative control device;
4. To update General Condition XVII emissions to allow for testing Boilers No. 1 and 2 (EPNs UTL01 and UTL02, respectively) once per year using No. 2 Fuel Oil;
5. To install aerators in the R-410B, R-460B, and R-480B Bioreactors (EPNs WWT07, WWT09, and WWT20, respectively);
6. To add OxyChem wastewater emissions and Polyol Plant wastewater emissions to the Wastewater Flare and Thermal Oxidizer Emissions Cap (EPN WWT CAP01);
7. To revise emissions estimates for the following emissions points: WWT03, WWT04, WWT08, WWT17, WWT19, and WWT CAP01;
8. To revise emissions from Boilers No. 1 and 2 and the Combined Cycle Gas Turbine No. 1 (EPN UTL09) to reflect proposed changes as a result the approved NOx RACT averaging plan;
9. To allow for an increase in the maximum permitted hourly NOx emission rate for the Cogeneration Unit No. 2 (EPN UTL10) during start-ups;
10. To delete the Marine Loading Dock (EPN WWT02) from this permit since BASF no longer owns/operates this loading facility;
11. To add an emissions cap, Diesel Firewater Pumps Cap (EPN WWT CAP02), and add additional firewater pumps and new descriptive names to the existing firewater pumps;
12. To revise emissions from the Sludge Dryer Contactor (EPN WWT05);
13. To update the Insignificant Activities and General Condition XVII Activities lists;
14. To incorporate minor revisions to the Part 70 Operating Permit to update various permit terms and conditions.

This permit is for renewal of the current Part 70 Air Operating Permit and involves minor revisions only. This permit does not include a major modification of existing sources or a physical change or change in the method of operation at the Utilities Plant. The emissions changes as shown in the following table are due to reconciliation only. As a result, Non-Attainment New Source Review (NNSR) and Prevention of Significant Deterioration (PSD) requirements do not apply. Note: The large reduction in NO_x emissions is due to the implementation of the NO_x regulations from LAC 33:III.2201; the large increase in CO emissions is due to the change in emission factors used to calculate the CO emissions.

Estimated emissions in tons per year for the Utilities Plant are as follows:

Pollutant	Before	After	Change
PM ₁₀	49.84	47.64	- 2.20
SO ₂	6.12	5.80	- 0.32
NO _x	2,109.14	1,259.75	- 849.39
CO	486.96	591.17	+ 104.21
VOC	36.70	48.82	+ 12.12
SO ₃	0.00	0.06	+ 0.06

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Thursday, September 4, 2008.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, proposed Part 70 Air Operating Permit renewal and minor modification, statement of basis, Worksheet for Technical Review of Working Draft of Proposed Permit, and environmental impact questions are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.**

Additional copies may be reviewed at the Ascension Parish Library - Gonzales Branch, 708 S. Irma Boulevard, Gonzales, LA and at the Iberville Parish Library - East Iberville Branch, 5715 Monticello Street, St. Gabriel, LA.

Inquiries or requests for additional information regarding this permit action should be directed to Kyle Prestenbach, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3132.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at deqmailistrequest@la.gov or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 2049, Permit Number 2265-V5, and Activity Number PER20040012.

Scheduled Publication Date: August 1, 2008

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Utilities Plant
Agency Interest No.: 2049
BASF Corporation – Geismar Site
Geismar, Ascension Parish, Louisiana**

I. Background

BASF Corporation (BASF) operates an integrated chemical manufacturing facility on the east bank of the Mississippi River between I-10 and Highway 75, near Geismar, Louisiana. The BASF Geismar facility produces acetylene, amine compounds, aniline, ethylene oxide, ethylene glycol, glyoxal, 1,4-butanediol, N-methyl pyrrolidone, toluene diisocyanate, tetrahydrofuran, polytetrahydrofuran, vinylpyrrolidone, polyvinylpyrrolidone, polyols, butyrolactone, surfactants, and methylenebis(phenylisocyanate) (MDI). The Geismar site operates under several Part 70 Operating Permits. This permit is for the Utilities Plant.

The BASF Utilities Plant currently operates under Permit No. 2265-V4 issued on November 22, 2000. The BASF Cogeneration Unit No. 1 also operates under PSD-LA-523(M-1) issued on September 12, 1987. The BASF Cogeneration Unit No. 2 also operates under PSD-LA-613 issued on December 30, 1997.

This permit is the renewal of the Part 70 operating permit for the Utilities Plant.

II. Origin

BASF submitted a permit application and Emission Inventory Questionnaire (EIQ) for the Utilities Plant dated December 21, 2004, along with supplemental information dated June 13, 2005; November 29, 2005; September 5, 2007 (Addendum No. 1); December 11, 2006; February 29, 2008 (Addendum No. 2); March 28, 2008; April 9, 2008; June 17, 2008; and June 24, 2008, requesting a Part 70 operating permit renewal and minor modification.

III. Description

Process Description

The Utilities Plant, consisting of several operating areas, provides steam, electricity, compressed air, and process water to the Geismar Site. The plant receives and then treats wastewater from various other production units prior to discharge. The Marine Shipping Facility (MSF) is no longer owned by BASF and is not included in the Utilities Plant permit.

Utilities Plant

The Utilities Plant provides electricity and steam to the entire BASF complex through a series of steam boilers and turbines. There are four boilers and two combined gas cycle turbines in the Utilities Plant.

Two boilers, Boilers No. 1 and No. 2, are covered in this permit. Utilities Boilers No. 3 and No. 6 are covered in a separate Part 70 Operating Permit. Boiler No. 1 is fired with natural gas,

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while Boiler No. 2 is fired with either natural gas or natural gas combined with acetylene offgas (AOG). The offgas consists primarily of hydrogen, carbon monoxide, and methane. In addition, both boilers have the capability to burn No. 2 and No. 6 Fuel Oil in the event that natural gas is unavailable or economically infeasible for use.

The two combined cycle turbines are used to generate electricity for the facility. One turbine, Cogeneration Unit No. 1 (Emission Point No. (EPN) UTL09), uses natural gas and drives a 35 MW electric generator. It has a heat recovery boiler that generates 153,000 lb/hr of steam. EPN UTL09 uses steam injection into the turbine as a method of NO_x control. The other cogeneration turbine, Cogeneration Unit No. 2 (EPN UTL10), has a heat recovery steam generator (HRSG). This turbine is capable of firing either natural gas and/or waste gas. The HRSG uses only natural gas. EPN UTL10 drives a 42 MW electric generator and uses both steam injection technology and SCR to control NO_x emissions from the turbine. A low-NO_x burner is used in the HRSG.

Wastewater Treatment Plant

The Wastewater Treatment Plant (WWTP) is part of the Utilities Plant and consists of several operating areas. The WWTP treats wastewater from chemical production units throughout the entire BASF complex, as well as wastewater from adjacent facilities (IMTT, Air Products, and OxyChem). The WWTP is a biological, activated sludge, treatment process using above ground treatment equipment. The areas included in the WWTP are Primary Treatment, Offgas Treatment, Secondary Treatment, Sludge/Solids Handling, and Tertiary Treatment.

The Primary Treatment area consists of equipment to remove solids, adjust pH, and equalize wastewater from the Geismar Site production units. Normal process wastewater is filtered through basket strainers to remove solids that cannot be processed through the treatment plant. After filtering, the wastewater is pumped to the inlet surge tank, TK-225, for pH adjustment and partial removal of volatile components. The wastewater then gravity-flows to the equalization tank, TK-401. The off-specification/recycle and stormwater tanks, TK-210 and TK-211, respectively, allow storage of excess hydraulic load during heavy rains, diverted process streams during plant upsets and turnarounds, and streams with high toxic or high hydraulic loads. The tanks in this treatment area are fixed-roof tanks, and gases are collected and routed to offgas treatment.

A volatile organic compound (VOC) collection and treatment system is provided for offgas treatment. This system includes closed tanks with a vent collection system for the off-specification, stormwater, inlet surge, and equalization tanks. Emissions vented from these vessels are collected and routed to the Thermal Oxidizer TO-330 (EPN WWT03) which is designed to destroy hydrocarbons with at least a 98% efficiency. The Thermal Oxidizer also receives vents from other process areas for emissions destruction. The thermal oxidizer system includes an HCl scrubber—a packed column equipped with a mist eliminator that uses water as

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the scrubbing medium. The WWTP Enclosed Flare, EPN WWT17, is used as a backup control device when EPN WWT03 is not operating.

The Secondary Treatment area consists of equipment to react, biodegrade, and reduce organic contaminants in the wastewater stream. Normal wastewater flows from the primary treatment section through the equalization tank before being sent to the aerobic reactor system. This transition serves to dampen fluctuations in the composition of the influent to the aerobic reactor system and provides a uniform reactor feed. Addition of hydrochloric acid, HCl, via an in-line static mixer adjusts the pH of the wastewater to about 9.0 before it enters the bioreactors. The biological reaction then lowers the pH to approximately 7.5.

Wastewater gravity-flows from the equalization tank to the six bioreactors, R-410 A/B, R-460 A/B, and R-480 A/B. The bioreactors provide intimate contact of wastewater, oxygen, and biomass, allowing biodegradation of organic contaminants in the wastewater. Each reactor is sized at 750,000 gallons and provides a total hydraulic residence time of about 40 hours at 1260 gpm. The reactors are open-top tanks and oxygen injection is utilized for significantly higher efficiency of oxygen utilization. Other potential benefits of pure oxygen use are improved oxygen transfer efficiency, less sludge production, and better settling characteristics of the sludge.

The mixed liquor of biomass and wastewater gravity-flows from the reactors to the open top clarifiers, TK-420, TK-470, and TK-490 where the biomass settles and is concentrated to 1% in the underflow. The bottom sludge is largely recycled to the reactors, with a small portion of the excess sludge routed to sludge/solids handling. The clarified effluent is pumped to tertiary treatment. Each of the two clarifiers is 82 feet in diameter, providing an acceptable design overflow rate.

The bio-sludge is dewatered using a belt press. Water removed from the sludge by the belt press is recycled to the bioreactors via a surge tank, TK-502. The dewatered sludge (12-18% solids) is then dried in the sludge drier, DR-530, prior to off-site disposal. The sludge drier is an indirect contact drier that utilizes 200 psig steam to produce a dried sludge (90% solids). Odor-causing compounds are removed by a packed column scrubber.

Clarified effluent from TK-420, TK-470, and TK-490 is filtered in two sets of sand filters, F-910 A/B/C/D, and F-950 A/B/C/D to reduce suspended solids content. Wastewater from the sand filters is collected in the filter clearwell and pumped to the carbon adsorption beds as needed.

The WWTP also includes a digester, a sooty water clarifier, and a plate and frame filter press.

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BASF Corporation – Geismar Site
Geismar, Ascension Parish, Louisiana**

Permit Description

In addition to this permit serving as a Part 70 Operating Permit renewal, BASF is proposing the following minor revisions to its current Part 70 Operating Permit:

1. To renumber all emission points with this permitting action;
2. To reconcile emissions to include minor fugitive emissions of carbon monoxide and ammonia;
3. To add an emissions cap, Wastewater Flare and Thermal Oxidizer Cap (Emission Point No. (EPN) WWT CAP01) to take into account periods where the Thermal Oxidizer (EPN WWT03) is out of service and the Wastewater Treatment Plant Flare (EPN WWT17) is in use as an alternative control device;
4. To update General Condition XVII emissions to allow for testing Boilers No. 1 and 2 (EPNs UTL01 and UTL02, respectively) once per year using No. 2 Fuel Oil;
5. To install aerators in the R-410B, R-460B, and R-480B Bioreactors (EPNs WWT07, WWT09, and WWT20, respectively);
6. To add OxyChem wastewater emissions and Polyol Plant wastewater emissions to the Wastewater Flare and Thermal Oxidizer Emissions Cap (EPN WWT CAP01);
7. To revise emissions estimates for the following emissions points: WWT03, WWT04, WWT08, WWT17, WWT19, and WWT CAP01;
8. To revise emissions from Boilers No. 1 and 2 and the Combined Cycle Gas Turbine No. 1 (EPN UTL09) to reflect proposed changes as a result of the approved NO_x RACT averaging plan;
9. To allow for an increase in the maximum permitted hourly NO_x emission rate for the Cogeneration Unit No. 2 (EPN UTL10) during start-ups;
10. To delete the Marine Loading Dock (EPN WWT02) from this permit since BASF no longer owns/operates this loading facility;
11. To add an emissions cap, Diesel Firewater Pumps Cap (EPN WWT CAP02), and add additional firewater pumps and new descriptive names to the existing firewater pumps;
12. To revise emissions from the Sludge Dryer Contactor (EPN WWT05);
13. To update the Insignificant Activities and General Condition XVII Activities lists;
14. To incorporate minor revisions to the Part 70 Operating Permit to update various permit terms and conditions.

This permit is for renewal of the current Part 70 Operating Permit and involves minor revisions only. This permit does not include a major modification of existing sources or a physical change or change in the method of operation at the Utilities Plant. The emissions changes as shown in the following table are due to reconciliation only. As a result, Non-Attainment New Source Review (NNSR) and Prevention of Significant Deterioration (PSD) requirements do not apply. Note: The large reduction in NO_x emissions is due to the implementation of the NO_x regulations from LAC 33:III.2201; the large increase in CO emissions is due to the change in emission factors used to calculate the CO emissions.

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***VOC LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
Methanol	< 0.01	1.07	+ 1.06
Methyl Chloride	0.00	0.01	+ 0.01
Naphthalene	0.10	0.12	+ 0.02
Phenol	0.00	0.03	+ 0.03
Polynuclear Aromatic Hydrocarbons	0.00	0.12	+ 0.12
Propylene Oxide	0.00	1.11	+ 1.11
Styrene	0.50	2.30	+ 1.80
Toluene ¹	3.00	3.10	+ 0.10
ortho-Toluidine	< 0.01	0.05	+ 0.04
1,1,2-Trichloroethane	0.00	0.03	+ 0.03
Trichloroethylene	0.00	0.03	+ 0.03
Vinyl Chloride	0.00	0.14	+ 0.14
Xylenes (mixed isomers) ¹	1.36	1.58	+ 0.22
Total	7.79	22.68	+ 14.89

¹ Highly Reactive Volatile Organic Compound (HRVOC)

Other VOC (TPY):	26.14
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Non-VOC LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
1,1,1-Trichloroethane	0.00	0.03	+ 0.03
Ammonia	46.74	47.39	+ 0.65
Barium	0.00	0.01	+ 0.01
Chlorine	0.00	0.01	+ 0.01
Dichloromethane	0.00	0.01	+ 0.01
Hydrochloric Acid	4.61	6.78	+ 2.17
Tetrachloroethylene	0.00	0.01	+ 0.01
Zinc	0.00	0.04	+ 0.04
Total	51.35	54.28	+ 2.93

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IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, Prevention of Significant Deterioration (PSD), New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP).

The BASF—Geismar Site is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. Air Toxics Compliance Plan No. 92067 was approved for the Geismar Site on November 1, 1994.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2008; and in *The Gonzales Weekly Citizen*, Gonzales, on <date>, 2008. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>, 2008. The draft permit was also submitted to US EPA Region VI on <date>, 2008. All comments will be considered prior to the final permit decision.

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VII. Effects on Ambient Air

Dispersion Model(s) Used: <None>

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
Emissions were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. The proposed project did not require the applicant to model emissions.			

VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates – tons per year				
		PM ₁₀	SO ₂	NO _X	CO	VOC
Boiler No.1 Fuel Oil Test Firing	45 hours/yr	0.43	4.69	2.35	0.21	0.03
Boiler No.2 Fuel Oil Test Firing	45 hours/yr	0.43	4.69	2.35	0.21	0.03
Boiler Startup – AOG Venting	24 startups/yr	-	-	-	0.18	-

IX. Insignificant Activities

ID No.:	Description	Citation
TK-201	Cationic Polymer (5,000 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-302	Boiler Phosphate (Balanced Polymer BP64411) (1,028 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3

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ID No.:	Description	Citation
TK-303	Boiler Amine (Steamate NA0560) (1,000 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-402	Dispersant Continuum AEC3108 (1,066 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-403	Inhibitor Continuum AEC3142 (1,066 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1006	Diesel Tank (250 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1007	Diesel Tank (250 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1008	Diesel Tank (250 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1009	Diesel Tank (250 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1011	Diesel Tank (250 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1012	Diesel Tank (250 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1013	Diesel Tank (500 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1014	Diesel Tank (250 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1015	Diesel Tank (250 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1017	Diesel Tank (4,300 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1020	Diesel Tank (800 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1021	Diesel Tank (800 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1022	Diesel Tank (1,000 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3

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ID No.:	Description	Citation
TK-1023	Diesel Tank (250 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1024	Diesel Tank (250 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-1033	Dow Corning Foam (250 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
D-3241	Natural Gas Distillate Knock-out Drum (1,600 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
UTL20	Diesel Tank (3,000 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.3
TK-0881	Analyzer Sample Tank (300 gallons)	Insignificant Activity per LAC 33:III.501.B.5.A.6
TK-104	75% Phosphoric Acid (3,008 gallons)	Insignificant Activity per LAC 33:III.501.B.5.B.8
TK-204	Sodium Hypochlorite (2,314 gallons)	Insignificant Activity per LAC 33:III.501.B.5.B.8
TK-301	Sodium Bisulfite (1,028 gallons)	Insignificant Activity per LAC 33:III.501.B.5.B.8
TK-406	Sodium Hypochlorite (2,407 gallons)	Insignificant Activity per LAC 33:III.501.B.5.B.8
TK-9032	Sodium Hypochlorite (5,000 gallons)	Insignificant Activity per LAC 33:III.501.B.5.B.8
TK-203	Sodium Hydroxide (8,091 gallons)	Insignificant Activity per LAC 33:III.501.B.5.B.40
TK-305	Sodium Hydroxide (25,780 gallons)	Insignificant Activity per LAC 33:III.501.B.5.B.40

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
 Agency Interest No.: 2049
 BASF Corporation – Geismar Site
 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

TEMPO ID No.:	Description	LAC 33:III Chapter																
		5▲	9	11	13	15	2103	2107	2113	2115	2121	2122	2153	22	29*	51*	56	59*
UNF0002	Utilities Plant	1	1	1	1												1	1
EQT0310	UTL01 - No. 1 Boiler (B-1)	1	1	1	1	3										1	2	
EQT0311	UTL02 - No. 2 Boiler (B-2)	1	1	1	3											1	2	
EQT0312	UTL03 - Natural Gas Distillate Tank (TK-3241)					1										1		
EQT0313	UTL05 - Diesel Tank (TK-9010)					3										1		
EQT0314	UTL06 - Diesel Tank (TK-9020)					3										1		
EQT0315	UTL07 - No. 2 Fuel Oil Storage Tank (TK-3002)					3										1		
EQT0316	UTL08 - HCl Storage Tank (TK-6711)					3										1		
EQT0317	UTL09 - Cogeneration Unit No. 1	1	1	1	3											1	2	
EQT0318	UTL10 - Cogeneration Unit No. 2 (Cogen-2 Unit)	1																
EQT0646	UTL10(a) - Cogen-2 Unit Gas Turbine	1		1	1	3										2	2	
EQT0647	UTL10(b) - Cogen-2 Unit Heat Recovery Steam Generator (HRSG)	1		1	1	3										2	2	
EQT0319	UTL11 - Distillate Loading												3				1	
EQT0320	UTL12 - Hydrochloric Acid Tank (TK-6731)												3				1	
EQT0321	UTL14 - Cooling Tower															1		
FUG0017	UTIL17 - Utilities Plant Fugitives												3	3			1	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
 Agency Interest No.: 2049
 BASF Corporation – Geismar Site
 Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

TEMPO ID No.:	Description	LAC 33:III.Chapter															
		5▲	9	11	13	15	2103	2107	2113	2115	2121	2122	2153	22	29*	51*	56
EQT0322	UTL19 - Stores No. 1 Gasoline Tank						1									1	
EQT0323	WWT01 - HCl Storage Tank (TK-5931)						3									1	
EQT0325	WWT03 - Thermal Oxidizer (TO-330)	1		1	1	3			3					2		1	
EQT0326	WWT04 - Bioreactor (R-410A)													3		1	
EQT0327	WWT05 - Sludge Dryer Contactor												2		1		
EQT0328	WWT07 - Bioreactor (R-410B)												3		1		
EQT0329	WWT08 - Bioreactor (R-460A)												3		1		
EQT0330	WWT09 - Bioreactor (R-460B)												3		1		
EQT0331	WWT10 - Hydrochloric Acid Tank (TK-106BX)						3								1		
EQT0332	WWT11 - Diesel Pump (P-7514)			1	1	3									2		
EQT0333	WWT12 - Diesel Pump (P-7515)		1	1	3										2		
EQT0334	WWT13 - Diesel Pump (P-7301B)		1	1	3										2		
EQT0335	WWT14 - Diesel Pump (P-7302B)		1	1	3										2		
EQT0336	WWT15 - Diesel Pump (P-7302C)		1	1	3										2		
EQT0337	WWT16 - Diesel Coag Water Pump		1	1	3										2		
EQT0338	WWT17 - WWTP Enclosed Flare		1	1	3			3						2		1	
EQT0339	WWT18 - Sample Returns Tank						3								1		
EQT0340	WWT19 - Bioreactor (R-480A)						3							3		1	

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Utilities Plant
Agency Interest No.: 2049
BASF Corporation – Geismar Site
Geismar, Ascension Parish, Louisiana**

Estimated emissions in tons per year for the Utilities Plant are as follows:

Pollutant	Before	After	Change
PM ₁₀	49.84	47.64	- 2.20
SO ₂	6.12	5.80	- 0.32
NO _X	2,109.14	1,259.75	- 849.39
CO	486.96	591.17	+ 104.21
VOC *	36.70	48.82	+ 12.12
SO ₃	0.00	0.06	+ 0.06

***VOC LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
Acetaldehyde ¹	0.10	0.22	+ 0.12
Acrolein	0.00	0.03	+ 0.03
Aniline	< 0.01	0.09	+ 0.08
Benzene	0.92	0.84	- 0.08
1,3-butadiene	0.00	0.02	+ 0.02
n-Butyl Alcohol	< 0.01	0.58	+ 0.57
Carbon Tetrachloride	0.00	0.02	+ 0.02
Chlorobenzene	1.40	0.28	- 1.12
Chloroethane	0.00	0.14	+ 0.14
Chloroform	0.00	0.04	+ 0.04
Dinitrotoluene	< 0.01	0.07	+ 0.06
1,1-Dichloroethene	0.00	0.03	+ 0.03
1,2-Dichloroethane	0.00	0.13	+ 0.13
Ethyl Benzene	0.36	0.46	+ 0.10
Ethylene Glycol	0.00	0.03	+ 0.03
Ethylene Oxide	0.00	0.03	+ 0.03
Formaldehyde	0.00	3.09	+ 3.09
n-Hexane	0.00	6.89	+ 6.89

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant

**Agency Interest No.: 2049
BASF Corporation – Geismar Site
Geismar, Ascension Parish, Louisiana**

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

TEMPO ID No.:	Description	LAC 33:III.Chapter																
		5▲	9	11	13	15	2103	2107	2113	2115	2121	2122	2153	22	29*	51*	56	59*
EQT0341	WWT20 - Bioreactor (R-480B)						3						3					
EQT0360	WWT03(a) - Offspec Storage Tank (TK-210)						3						3					1
EQT0361	WWT03(b) - Stormwater Tank (TK-211)						3						3					1
EQT0362	WWT03(c) - Inlet Surge Tank/Wastewater Stripper (TK-225)						3						3					
EQT0363	WWT03(d) - Equalization Tank (TK-401)						3						3					
EQT0364	WWT03(e) - BOD Booster Tank (TK-108)						3						3					
EQT0365	WWT03(f) - BOD Booster Tank (TK-109)						3						3					
EQT0641	WWT21 – Diesel Firewater Pump 2-B						3						3					2
EQT0642	WWT22 – Diesel Firewater Pump 2-C						3						3					2
EQT0643	WWT23 – Diesel Firewater Pump 1-B						3						3					2
EQT0644	WWT24 – Diesel Firewater Pump 1-C						3						3					2
GRP008	WWT CAP01 – Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap						1											
GRP0076	WWT CAP02 – Diesel Firewater Pumps Emissions Cap						1											

* The regulations indicated above are State Only regulations.

▲ LAC 33:III.501.C.6 citations are federally enforceable except when it specifically states that the regulations are state only.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
Agency Interest No.: 2049
BASF Corporation – Geismar Site
Geismar, Ascension Parish, Louisiana

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**Utilities Plant**

Agency Interest No.: 2049
BASF Corporation – Geismar Site
Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

TEMPO ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHPAP			40 CFR																		
		A	D	D	K	K	G	V	I	A	M	F	A	F	G	H	Q	Y	Y	Z	N	Y	Z	N	Y	Z	N		
UNF0002	Utilities Plant	1								1	1	1	1	1								1	1						
EQT0310	UTL01 - No. 1 Boiler (B-1)	3	3	3	3																								
EQT0311	UTL02 - No. 2 Boiler (B-2)	3	3	3	3																								
EQT0312	UTL03 - Natural Gas Distillate Tank (TK-3241)									3	3	3																	
EQT0313	UTL05 - Diesel Tank (TK-9010)									3	3	3																	
EQT0314	UTL06 - Diesel Tank (TK-9020)									3	3	3																	
EQT0315	UTL07 - No. 2 Fuel Oil storage Tank (TK-3002)									3	3	3																	
EQT0316	UTL08 - HCl Storage Tank (TK-6711)									3	3	3																	
EQT0317	UTL09 - Cogeneration Unit No. 1									1																			
EQT0318	UTL10 - Cogeneration Unit No. 2 (Cogen-2 Unit)																												
EQT0646	UTL10(a) – Cogen-2 Unit Gas Turbine	1																											
EQT0647	UTL10(b) – Cogen-2 Unit Heat Recovery Steam Generator (HRSG)	1	3	3	1	3																							
EQT0319	UTL11 - Distillate Loading																						3	3					

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant

Agency Interest No.: 2049

BASF Corporation - Geismar Site

Geismar, Ascension Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

TEMPO ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR																		
		A	D a	D b	D c	K	K a	K b	G	V a	V b	I	A	M	FF	F	G	H	Q	Y	Y	Z	N	Z	N	64	68	82	
EQT0320	UTL12 - Hydrochloric Acid Tank (TK-6731)																									3			
EQT0321	UTL14 - Cooling Tower																									3			
FUG0017	UTL17 - Utilities Plant Fugitives																												
EQT0322	UTL19 - Stores No. 1 Gasoline Tank																									3			
EQT0323	WWT01 - HCl Storage Tank (TK-5931)																												
EQT0325	WWT03 - Thermal Oxidizer (TO-330)																												
EQT0326	WWT04 - Bioreactor (R-410A)																												
EQT0327	WWT05 - Sludge Dryer Contactor																												
EQT0328	WWT07 - Bioreactor (R-410B)																												
EQT0329	WWT08 - Bioreactor (R-460A)																												
EQT0330	WWT09 - Bioreactor (R-460B)																												
EQT0331	WWT10 - Hydrochloric Acid Tank (TK-106BX)																												
EQT0332	WWT11 - Diesel Pump (P-7514)																												
EQT0333	WWT12 - Diesel Pump (P-7515)																												
EQT0334	WWT13 - Diesel Pump (P-7301B)																												

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant

Agency Interest No.: 2049

Agency interest rates 264

**BASF Corporation = Geismar Site
Geismar, Ascension Parish, Louisiana**

Table I. Applicable Louisiana and Federal Air Quality Requirements

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**Utilities Plant****Agency Interest No.: 2049****BASF Corporation – Geismar Site
Geismar, Ascension Parish, Louisiana****X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

TEMPO ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR																	
		A	D	D	D	K	K	G	V	I	A	M	F	F	A	F	G	H	Q	Y	Y	Z	N	Z	Z	N	64	68
EQT0642	WWT22 – Diesel Firewater Pump 2-C																											
EQT0643	WWT23 – Diesel Firewater Pump 1-B																											
EQT0644	WWT24 – Diesel Firewater Pump 1-C																											
GRP008	WWT CAP01 – Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap																											
GRP0076	WWT CAP02 – Diesel Firewater Pumps Emissions Cap																											

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
Agency Interest No.: 2049
BASF Corporation – Geismar Site
Geismar, Ascension Parish, Louisiana

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
 Agency Interest No.: 2049
 BASF Corporation – Geismar Site
 Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

TEMPO ID No:	Description	Requirement	Notes
EQT0310	UTL01 - No. 1 Boiler (B-1)	LAC 33:III.Chapter 15	DOES NOT APPLY. This Chapter does not apply to single point sources that emit or have the potential to emit less than 5 tons per year of sulfur dioxide into the atmosphere. [LAC 33:III.1502.A.3]
EQT0311	UTL02 – No. 2 Boiler (B-2)	Emission Standards for Sulfur Dioxide	
		LAC 33:III.5109 Comprehensive Toxic Air Pollutant Emission Control Program – Emission Control and Reduction Requirements and Standards	EXEMPT. The combustion of Group 1 virgin fossil fuels is exempt from the requirements of Subchapter A. [LAC 33:III.5105.B.3.a]
		40 CFR 60 Subpart D Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971	DOES NOT APPLY. Boilers were constructed prior to August 17, 1971 and have not been reconstructed or modified since that time. [40 CFR 60.40(c)] Boilers were constructed in 1958.
		40 CFR 60 Subpart Da Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978	DOES NOT APPLY. Boilers were constructed prior to September 18, 1978 and have not been reconstructed or modified since that time. [40 CFR 60.40(a)(2)] Boilers were constructed in 1958.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
 Agency Interest No.: 2049
BASF Corporation – Geismar Site
Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

TEMPO ID No: <i>(continued)</i>	Description	Requirement	Notes
EQT0310 EQT0311	UTL01 - No. 1 Boiler (B-1) UTL02 – No. 2 Boiler (B-2)	40 CFR 60 Subpart Db Standards of Performance for Industrial-Institutional Steam Generating Units	DOES NOT APPLY. Boilers were constructed prior to June 19, 1984 and have not been reconstructed or modified since that time. [40 CFR 60.40b(a)] Boilers were constructed in 1958.
		40 CFR 60 Subpart Dc Industrial-Commercial-Institutional Generating Units	DOES NOT APPLY. Boilers were constructed prior to June 9, 1989 and have not been reconstructed or modified since that time. [40 CFR 60.40c(a)] Boilers were constructed in 1958.
EQT0312	UTL03 – Natural Gas Distillate Tank (TK-3241)	40 CFR 60 Subpart-K Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973 and Prior to May 19, 1978.	DOES NOT APPLY. Storage tank was constructed prior to June 11, 1973, has a capacity of less than 40,000 gallons, and does not store a <i>petroleum liquid</i> as defined in 40 CFR 60.111(b). [40 CFR 60.110(a)]
		40 CFR 60 Subpart Ka Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Storage tank was constructed prior to May 18, 1978, has a capacity of less than 40,000 gallons, and does not store a <i>petroleum liquid</i> as defined in 40 CFR 60.111(a). [40 CFR 60.110(a)]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
 Agency Interest No.: 2049
BASF Corporation – Geismar Site
Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

TEMPO ID No:	Description	Requirement	Notes
(continued) EQT0312	UTL03 – Natural Gas Distillate Tank (TK-3241)	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Storage tank was constructed prior to July 23, 1984 and has a capacity of less than 75 m ³ (19,813 gallons). [40 CFR 60.110(b)(a)]
EQT0313 EQT0314	UTL05 - Diesel Tank (TK-9010) UTL06 - Diesel Tank (TK-9020)	LAC 33·III.2103 Control of Emissions of Organic Compounds - Storage of Volatile Organic Compounds	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia. However, recordkeeping per LAC 33·III.2103.I is required. [LAC 33·III.2103.A]
		40 CFR 60 Subpart K Standards of Performance for Storage Vessels for Which Construction, Reconstruction, or Modification Commences after June 11, 1973 and Prior to May 19, 1978.	DOES NOT APPLY. Storage tanks were constructed prior to June 11, 1973, have capacities of less than 40,000 gallons, and do not store <i>petroleum liquids</i> as defined in 40 CFR 60.111(b). [40 CFR 60.110(a)] Storage tanks were constructed in 1972.
		40 CFR 60 Subpart Ka Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Storage tanks were constructed prior to May 18, 1978, have capacities of less than 40,000 gallons, and do not store <i>petroleum liquids</i> as defined in 40 CFR 60.111(a(b)). [40 CFR 60.110(a)] Storage tanks were constructed in 1972.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
 Agency Interest No.: 2049
BASF Corporation – Geismar Site
Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

TEMPO ID No:	Description	Requirement	Notes
(continued)		40 CFR 60 Subpart Kb	DOES NOT APPLY. Storage tanks were constructed prior to July 23, 1984 and have capacities of less than 75 m ³ (19,813 gallons). [40 CFR 60.110(b)(a)]
EQT0313	UTL05 - Diesel Tank (TK-9010)	Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	Storage tanks were constructed in 1972.
EQT0314	UTL06 - Diesel Tank (TK-9020)		DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia. However, recordkeeping per LAC 33:III.2103.I is required. [LAC 33:III.2103.B]
EQT0315	UTL07 - No. 2 Fuel Oil Tank (TK-3002)	LAC 33:III.2103 Control of Emissions of Organic Compounds - Storage of Volatile Organic Compounds	DOES NOT APPLY. Storage tank was constructed prior to June 11, 1973 and does not store <i>petroleum liquids</i> as defined in 40 CFR 60.111(b). [40 CFR 60.110(a)]
		40 CFR 60 Subpart K	Storage tank was constructed in 1973.
		Standards of Performance for Storage Vessels for Which Construction, Reconstruction, or Modification Commences after June 11, 1973 and Prior to May 19, 1978.	DOES NOT APPLY. Storage tank was constructed prior to May 18, 1978 and does not store <i>petroleum liquids</i> as defined in 40 CFR 60.111(a). [40 CFR 60.110(a)]
		40 CFR 60 Subpart Ka	Storage tank was constructed in 1973.
		Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Storage tank was constructed prior to May 18, 1978 and does not store <i>petroleum liquids</i> as defined in 40 CFR 60.111(a). [40 CFR 60.110(a)]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
Agency Interest No.: 2049
BASF Corporation – Geismar Site
Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

TEMPO ID No: <i>(continued)</i>	Description	Requirement	Notes
EQT0315	UTL07 - No. 2 Fuel Oil Tank (TK-3002)	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Storage tank was constructed prior to July 23, 1984. [40 CFR 60.110(b)] Storage tank was constructed in 1973.
EQT0316	UTL08 - HCl Tank (TK-6711)	LAC 33:III.2103 Control of Emissions of Organic Compounds - Storage of Volatile Organic Compounds	DOES NOT APPLY. Tanks do not store volatile organic liquids.
EQT0320	UTL12 - HCl Tank (TK-6731)		
EQT0323	WWT01 - HCl Storage Tank (TK-5931)		
EQT0331	WWT10 - HCl Storage Tank (TK-106BX)	40 CFR 60 Subpart K	DOES NOT APPLY. Storage tanks do not store <i>petroleum liquids</i> as defined in 40 CFR 60.111(b). [40 CFR 60.110(a)]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
Agency Interest No.: 2049
BASF Corporation – Geismar Site
Geismar Ascension Parish, Louisiana

XI-Table 2. Explanation for Exemption Status or Non-Applicability of a Source

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

TEMPO ID No:	Description	Requirement	Notes
(continued)			
EQT0316	UTL08 - HCl Tank (TK-6711)	40 CFR 60 Subpart Ka Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Storage tanks do not store <i>petroleum liquids</i> as defined in 40 CFR 60.111a(b). [40 CFR 60.110a(a)]
EQT0320	UTL12 – HCL Tank (TK-6731)		
EQT0323	WWT01 - HCl Storage Tank (TK-5931)		
EQT0331	WWT10 – HCL Storage Tank (TK-106BX)	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Storage tanks do not store <i>volatile organic liquids (VOL)</i> as defined in 40 CFR 60.111b. [40 CFR 60.110b(a)]
EQT0317	UTL09 - Cogeneration Unit No. 1	LAC 33:III Chapter 15 Emission Standards for Sulfur Dioxide	DOES NOT APPLY. This Chapter does not apply to single point sources that emit or have the potential to emit less than 5 tons per year of sulfur dioxide into the atmosphere. [LAC 33:III.1502.A.3]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
Agency Interest No.: 2049
BASF Corporation – Geismar Site
Geismar, Ascension Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

TEMPO ID No: <i>(continued)</i> EQT0317	Description UTL09 - Cogeneration Unit No. 1	Requirement	Notes
	LAC 33:III.5109 Comprehensive Toxic Air Pollutant Emission Control Program – Emission Control and Reduction Requirements and Standards	EXEMPT. The combustion of Group 1 virgin fossil fuels is exempt from the requirements of Subchapter A. [LAC 33:III.5105.B.3.a]	
	40 CFR 63 Subpart YYYY National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	DOES NOT APPLY. Existing stationary combustion turbines in all subcategories do not have to meet the requirements of this subpart and of subpart A of this part. No initial notification is necessary for any existing stationary combustion turbine. [40 CFR 63.6090(b)(4)]	
	40 CFR 64 Compliance Assurance Monitoring (CAM)	EXEMPT. The requirements of this Part shall not apply to emission limitations or standards for which a Part 70 or 71 permit specifies a continuous compliance determination method, as defined in 40 CFR 64.1. [40 CFR 64.2(b)(1)(vi)] BASF is continuously monitoring NOx lbs/MMBTU using a PEMS per 40 CFR 60 Subpart GG.	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

TEMPO ID No:	Description	Requirement	Notes
EQT0646	UTL10(a) - Cogeneration Unit No. 2 Gas Turbine	LAC 33:III.Chapter 15 Emission Standards for Sulfur Dioxide	DOES NOT APPLY. This Chapter does not apply to single point sources that emit or have the potential to emit less than 5 tons per year of sulfur dioxide into the atmosphere. [LAC 33:III.1502.A.3]
		LAC 33:III.Chapter 22 Control of Emissions of Nitrogen Oxides (NO _x)	EXEMPT. Source meets more stringent requirement and is exempt from this Chapter. [LAC 33:III.2201.C.15]
		LAC 33:III.5109 Comprehensive Toxic Air Pollutant Emission Control Program – Emission Control and Reduction Requirements and Standards	EXEMPT. The combustion of Group 1 virgin fossil fuels is exempt from the requirements of Subchapter A. [LAC 33:III.5105.B.3.a]
		40 CFR 63 Subpart YYYY National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	DOES NOT APPLY. Existing stationary combustion turbines in all subcategories do not have to meet the requirements of this subpart and of subpart A of this part. No initial notification is necessary for any existing stationary combustion turbine. [40 CFR 63.6090(b)(4)]

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

TEMPO ID No:	Description	Requirement	Notes
<i>(continued)</i> EQT0646	UTL10(a) - Cogeneration Unit No. 2 Gas Turbine	40 CFR 64 Compliance Assurance Monitoring (CAM)	EXEMPT. The requirements of this Part shall not apply to emission limitations or standards for which a Part 70 or 71 permit specifies a continuous compliance determination method, as defined in 40 CFR 64.1. [40 CFR 64.2(b)(1)(vi)] BASF is continuously monitoring NOx lbs/MMBTU using a CEMS per PSD-LA-613.
EQT0647	UTL10(b) – Cogeneration Unit No. 2 Heat Recovery Steam Generator (HRSG)	LAC 33:III.Chapter 15 Emission Standards for Sulfur Dioxide	DOES NOT APPLY. This Chapter does not apply to single point sources that emit or have the potential to emit less than 5 tons per year of sulfur dioxide into the atmosphere. [LAC 33:III.1502.A.3]
	LAC 33:III.Chapter 22 Control of Emissions of Nitrogen Oxides (NO _x)		EXEMPT. Source meets more stringent requirement and is exempt from this Chapter. [LAC 33:III.2201.C.15]

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TEMPO ID No: <i>(continued)</i>	Description	Requirement	Notes
EQT0647	UTL10(b) – Cogeneration Unit No. 2 Heat Recovery Steam Generator (HRSG)	LAC 33:III.5109 Comprehensive Toxic Air Pollutant Emission Control Program – Emission Control and Reduction Requirements and Standards	EXEMPT. The combustion of Group 1 virgin fossil fuels is exempt from the requirements of Subchapter A. [LAC 33:III.5105.B.3.a]
		40 CFR 60 Subpart D Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971	DOES NOT APPLY. Any affected facility meeting the applicability requirements of this Subpart and commenced construction, modification, or reconstruction after June 19, 1986, is not subject to this Subpart. [40 CFR 60.40b(j)]
		40 CFR 60 Subpart Da Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978	DOES NOT APPLY. The HRSG is not a component of an electric utility steam generating unit. [40 CFR 60.40a(a)]
		40 CFR 60 Subpart Dc Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	DOES NOT APPLY. The HRSG's heat input capacity is greater than 100 MM BTU/hr. [40 CFR 60.40c(a)]

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TEMPO ID No:	Description	Requirement	Notes
(continued) EQT0647	UTL10(b) – Cogeneration Unit No. 2 Heat Recovery Steam Generator (HRSG)	40 CFR 63 Subpart YYYY National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	DOES NOT APPLY. Duct burners and waste heat recovery units are considered steam generating units and are not covered under this subpart per 40 CFR 63.6092.
EQT0319	UTL11 - Distillate Loading	LAC 33:III.2107 Volatile Organic Compounds – Loading	DOES NOT APPLY. The annual throughput of the loading operation is \leq 20,000 gallons/day (averaged over any 30 day period) and therefore, does not meet applicability requirements. This source loads a maximum of 500 gallons/yr of material. [LAC 33:III.2107.A]
EQT0321	UTL14 - Cooling Tower	40 CFR 63 Subparts F and G National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry	DOES NOT APPLY. Transfer rack does not include racks, arms, or hoses that only transfer liquids containing organic hazardous air pollutants as impurities. [40 CFR 63.101(b)]
		40 CFR 63 Subpart F National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry	DOES NOT APPLY. Cooling tower serves only the Utilities Plant and no other chemical manufacturing units in the complex. [40 CFR 63.104]
		40 CFR 63 Subpart Q National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers	DOES NOT APPLY. Chromium based water treatment chemicals are not used in the cooling tower. [40 CFR 63.400(a)]

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TEMPO ID No:	Description	Requirement	Notes
FUG0017	UTL17 – Utilities Plant Fugitives	LAC 33:III.2121 Control of Emission of Organic Compounds – Fugitive Emission Control	EXEMPT. The Utilities Plant receives vent gas from the Acetylene Plant, a SOCMI Unit, but the vent gas contains less than 10 percent VOC by volume. [LAC 33:III.2121.C.4]
		LAC 33:III.2122 Control of Emission of Organic Compounds – Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes	DOES NOT APPLY. The Utilities Plant does not meet the definition of a SOCMI facility.
EQT0322	UTL19 - Stores No. 1 Gasoline Tank	40 CFR 60 Subpart K Standards of Performance for Storage Vessels for Which Construction, Reconstruction, or Modification Commences after June 11, 1973 and Prior to May 19, 1978	DOES NOT APPLY. Storage tank was constructed after May 19, 1978. [40 CFR 60.110(a)] Storage tank was constructed in 1986.
		40 CFR 60 Subpart Ka Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984	DOES NOT APPLY. Storage tank was constructed after July 23, 1984. [40 CFR 60.110(a)] Storage tank was constructed in 1986.

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TEMPO ID No:	Description	Requirement	Notes
<i>(continued)</i>			
EQT0322	UTL19 - Stores No. 1 Gasoline Tank	<p>40 CFR 60 Subpart Kb</p> <p>Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.</p>	<p>DOES NOT APPLY. Storage tank volume is less than 75 m³ (19,813 gallons). [40 CFR 60.110b(a)]</p> <p>Storage tank volume is 3,000 gallons.</p>
EQT0325	WWT03 Thermal Oxidizer	<p>40 CFR 63 Subpart F</p> <p>National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry</p>	<p>DOES NOT APPLY. Tank does not meet the definition of a <i>storage vessel</i> under this subpart (capacity ≤10,000 gallons). [40 CFR 63.101(b)]</p>
		<p>40 CFR 63 Subpart G</p> <p>National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater</p>	<p>DOES NOT APPLY. Tank does not meet the definition of a <i>storage vessel</i> under Subpart F (capacity ≤10,000 gallons). [40 CFR 63.119]</p>
		<p>LAC 33:III.Chapter 15</p> <p>Emission Standards for Sulfur Dioxide</p>	<p>DOES NOT APPLY. This Chapter does not apply to single point sources that emit or have the potential to emit less than 5 tons per year of sulfur dioxide into the atmosphere.</p> <p>[LAC 33:III.1502.A.3]</p>

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TEMPO ID No: <i>(continued)</i>	Description	Requirement	Notes
EQT0325	WWT03 Thermal Oxidizer	LAC 33:III.2115 Control of Emissions of Organic Compounds – Waste Gas Disposal [LAC 33:III.2115]	DOES NOT APPLY. This Section does not apply to waste gas streams that are required by another federal or state regulation to implement controls that reduce VOC to a more stringent standard than would be required by this Section. [LAC 33:III.2115] This source is subject to the requirements of 40 CFR 63 Subpart G (HON).
		LAC 33:III.2153 Limiting VOC Emissions from Industrial Wastewater	EXEMPT. Any component of a wastewater storage, handling, transfer, or treatment facility that is subject to HON wastewater provisions or 40 CFR 61 Subpart FF or YYY is exempt from the provisions of this Section. [LAC 33:III.2153;G.6]
			This source is subject to the requirements of HON.

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TEMPO ID No:	Description	Requirement	Notes
EQT0360	WWT03(a) Offspec Storage Tank, TK-210	LAC 33:III.2153 Limiting Volatile Organic Compound Emissions From Industrial Wastewater	EXEMPT. The WWTP is subject to NESHAP Subpart G wastewater provisions and is, therefore, exempt from this requirement. [LAC 33:III.2153.G.6]
EQT0362	WWT03(c) Inlet Surge Tank/ Wastewater Stripper, TK-225		
EQT0363	WWT03(d) Equalization Tank, TK-401		
EQT0364	WWT03(e) BOD Booster Tank, TK-108		
EQT0365	WWT03(f) BOD Booster Tank, TK-109		
		LAC 33:III.2103 Control of Emissions of Organic Compounds - Storage of Volatile Organic Compounds	DOES NOT APPLY. Tanks do not store a volatile organic liquid.
		40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	DOES NOT APPLY. Wastewater does not meet the definition of a volatile organic liquid (VOL) subject to this subpart.
EQT0361	WWT03(b) Stormwater Tank, TK-211	LAC 33:III.2103 Control of Emissions of Organic Compounds - Storage of Volatile Organic Compounds	DOES NOT APPLY. Tank does not store a volatile organic liquid.

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TEMPO ID No:	Description	Requirement	Notes
(continued) EQT0361	WWT03(b) Stormwater Tank, TK-211	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984)	DOES NOT APPLY. Wastewater does not meet the definition of a volatile organic liquid (VOL) subject to this subpart.
EQT0326	WWT04 - Bioreactor R-410A	40 CFR 63 Subpart G National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater	DOES NOT APPLY. Tank receives stormwater and does not receive any wastewater streams as defined in 40 CFR 63.101 of Subpart F. Therefore, HON requirements do not apply.
EQT0328	WWT07 - Bioreactor R-410B	LAC 33.III.2153	EXEMPT. The WWTP is subject to NESHAP Subpart G wastewater provisions and is, therefore, exempt from this requirement. [LAC 33.III.2153.G.6]
EQT0329	WWT08 - Bioreactor R-460A	Limiting Volatile Organic Compound Emissions From Industrial Wastewater	
EQT0330	WWT09 - Bioreactor R-460B		
EQT0340	WWT19 - Bioreactor R-480A		
EQT0341	WWT20 - Bioreactor R-480B		

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TEMPO ID No:	Description	Requirement	Notes
<i>(continued)</i>			
EQT0326	WWT04 - Bioreactor R-410A	40 CFR 60 Subpart Kb	DOES NOT APPLY. Tanks do not meet the definition of a <i>storage vessel</i> as defined in 40 CFR 60.111b since they qualify as process tanks.
EQT0328	WWT07 - Bioreactor R-410B	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	
EQT0329	WWT08 - Bioreactor R-460A		
EQT0330	WWT09 - Bioreactor R-460B		
EQT0340	WWT19 - Bioreactor R-480A		
EQT0341	WWT20 - Bioreactor R-480B		
EQT0327	WWT05 - Sludge Dryer Contactor	LAC 33:III.2153 Limiting Volatile Organic Compound Emissions From Industrial Wastewater	EXEMPT. The WWTP is subject to NESHAP Subpart G wastewater provisions and is, therefore, exempt from this requirement. [LAC 33:III.2153.G.6]
			DOES NOT APPLY. The waste stream operation generates sludge for offsite disposal that contains trace amounts of HCl. [40 CFR 63.8980 through 63.9075]
			DOES NOT APPLY. This Chapter does not apply to single point sources that emit or have the potential to emit less than 5 tons per year of sulfur dioxide into the atmosphere. [LAC 33:III.1502.A.3]
EQT0334	WWT13 - South Coag Water Pump (P-9020BR)	LAC 33:III.Chapter 15	
EQT0335	WWT14 - Diesel SERW Pump (P-9010B)	Emission Standards for Sulfur Dioxide	
EQT0336	WWT15 - Diesel Pump P-7302C		
EQT0337	WWT16 - Diesel Coag Water Pump		

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TEMPO ID No:	Description	Requirement	Notes
<i>(continued)</i>			
EQT0334	WWT13 – South Coag Water Pump (P-9020BR)	LAC 33:III.5109 Comprehensive Toxic Air Pollutant Emission Control Program – Emission Control and Reduction Requirements and Standards	EXEMPT. The combustion of Group 1 virgin fossil fuels is exempt from the requirements of Subchapter A. [LAC 33:III.5105.B.3.a]
EQT0335	WWT14 – Diesel SERW Pump (P-9010B)		
EQT0336	WWT15 - Diesel Pump P-7302C		
EQT0337	WWT16 – Diesel Coag Water Pump		
		40 CFR 60 Subpart III Standards of Performance for Stationary Internal Combustion Engines	DOES NOT APPLY. This Subpart does not apply to stationary compression ignition (CI) internal combustion engines (ICE) that commenced construction before July 11, 2005 and were manufactured before April 1, 2006. [40 CFR 60.4200(a)(2)]
		40 CFR 63 Subpart ZZZZ NESHAP for Stationary Reciprocating Internal Combustion Engines	DOES NOT APPLY. Existing compression ignition (CI) stationary RICES do not have to meet the requirements of this Subpart and of Subpart A of this part. No initial notification is necessary. [40 CFR 63.6590(b)(3)]

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TEMPO ID No:	Description	Requirement	Notes
EQT0338	WWT17 - WWTP Enclosed Flare	LAC 33:III.Chapter 15 Emission Standards for Sulfur Dioxide	DOES NOT APPLY. This Chapter does not apply to single point sources that emit or have the potential to emit less than 5 tons per year of sulfur dioxide into the atmosphere. [LAC 33:III.1502.A.3]
		LAC 33:III.2115 Control of Emissions of Organic Compounds – Waste Gas Disposal	DOES NOT APPLY. This Section does not apply to waste gas streams that are required by another federal or state regulation to implement controls that reduce VOC to a more stringent standard than would be required by this Section. [LAC 33:III.2115] This source is subject to the requirements of 40 CFR 63 Subpart G (HON).
EQT0339	WWT18 - Sample Returns Tank	LAC 33:III.2103 Control of Emissions of Organic Compounds - Storage of Volatile Organic Compounds -	EXEMPT. Any component of a wastewater storage, handling, transfer, or treatment facility that is subject to HON wastewater provisions or 40 CFR 61 Subpart FF or YYY is exempt from the provisions of this Section. [LAC 33:III.2153.G.6] This source is subject to the requirements of HON.
			DOES NOT APPLY. Vapor pressure of the stored liquid is less than 1.5 psia.

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TEMPO ID No: <i>(continued)</i>	Description	Requirement	Notes
EQT0339	WWT18 - Sample Returns Tank	<p>40 CFR 60 Subpart K</p> <p>Standards of Performance for Storage Vessels for Which Construction, Reconstruction, or Modification Commences after June 11, 1973 and Prior to May 19, 1978.</p>	<p>DOES NOT APPLY. Storage tank was constructed after May 19, 1978. [40 CFR 60.110(a)]</p> <p>Storage tank was constructed in 1997.</p>
		<p>40 CFR 60 Subpart Ka</p> <p>Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978 and Prior to July 23, 1984</p>	<p>DOES NOT APPLY. Storage tank was constructed after July 23, 1984.</p> <p>[40 CFR 60.110a(a)]</p> <p>Storage tank was constructed in 1997.</p>
		<p>40 CFR 60 Subpart Kb</p> <p>Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984</p>	<p>DOES NOT APPLY. Tank volume is less than 75 m³ (19,813 gallons). [40 CFR 60.110b(a)].</p>
		<p>40 CFR 63 Subpart G</p> <p>National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater</p>	<p>DOES NOT APPLY. Tank does not meet the definition of <i>storage vessel</i> as defined in 40 CFR 63.101 of Subpart F.</p> <p>Tank volume is less than 38 m³ (10,000 gallons).</p>

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TEMPO ID No:	Description	Requirement	Notes
EQT332	WWT11 – Diesel Firewater Pump 2-A	LAC 33:III.Chapter 15 Emission Standards for Sulfur Dioxide	DOES NOT APPLY. This Chapter does not apply to single point sources that emit or have the potential to emit less than 5 tons per year of sulfur dioxide into the atmosphere. [LAC 33:III.1502.A.3]
EQT333	WWT12 – Diesel Firewater Pump 1-A		
EQT641	WWT21 – Diesel Firewater Pump 2-B		
EQT642	WWT22 – Diesel Firewater Pump 2-C		
EQT643	WWT23 – Diesel Firewater Pump 1-B		
EQT644	WWT24 – Diesel Firewater Pump 1-C		
		LAC 33:III.5109 Comprehensive Toxic Air Pollutant Emission Control Program – Emission Control and Reduction Requirements and Standards	EXEMPT. The combustion of Group 1 virgin fossil fuels is exempt from the requirements of Subchapter A. [LAC 33:III.5105.B.3.a]
		40 CFR 60 Subpart III Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	DOES NOT APPLY. Subpart does not apply to stationary compression ignition (CI) internal combustion engines (ICE) that commenced construction before July 11, 2005 and are used as fire water pumps. [40 CFR 60.4200(a)(2)(i)]
		40 CFR 63 Subpart ZZZZ NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE)	DOES NOT APPLY. Existing emergency stationary RICES and existing compression ignition (CI) stationary RICES do not have to meet the requirements of this subpart and of subpart A of this part. No initial notification is necessary. [40 CFR 63.6590(b)(3)]

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The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:

40 CFR PART 70 GENERAL CONDITIONS

1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
 4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]

40 CFR PART 70 GENERAL CONDITIONS

- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;

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2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
5. changes in emissions would not qualify as a significant modification; and
6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).

1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December

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4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does

40 CFR PART 70 GENERAL CONDITIONS

not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated December 21, 2004, along with supplemental information dated June 13, 2005; November 29, 2005; September 5, 2007 (Addendum No. 1); December 11, 2006; February 29, 2008 (Addendum No. 2); March 28, 2008; April 9, 2008; June 17, 2008; and June 24, 2008.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.

- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete.

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
 - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I Chapter 39.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 - 1. Report by June 30 to cover January through March
 - 2. Report by September 30 to cover April through June
 - 3. Report by December 31 to cover July through September
 - 4. Report by March 31 to cover October through December
 - D. Each report submitted in accordance with this condition shall contain the following information:
 - 1. Description of noncomplying emission(s);
 - 2. Cause of noncompliance;
 - 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 - 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 - 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
 - E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of the permit may be appealed to the secretary in writing pursuant to La. R.S. 30:2024(A) within 30 days from notice of the permit action. A request may be made to the secretary to suspend those provisions of the permit specifically appealed. The permit remains in effect to the extent that the secretary or assistant secretary does not elect to suspend the appealed provisions as requested or, at his discretion, other permit provisions as well. Construction cannot proceed, except as specifically approved by the secretary or assistant secretary, until a final decision has been rendered on the appeal. A request for hearing must be sent to the Office of the Secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

INVENTORIES

AI ID: 2049 - BASF Corp - Geismar Site
Activity Number: PER20040012
Permit Number: 2265-V5
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Utilities Plant						
EQT0310	UTL01 - No. 1 Boiler (B-1)		285.3 MM BTU/hr	285.3 MM BTU/hr		8760 hr/yr (All Year)
EQT0311	UTL02 - No. 2 Boiler (B-2)		285.3 MM BTU/hr	285.3 MM BTU/hr		8760 hr/yr (All Year)
EQT0312	UTL03 - TK-3241 Natural Gas Distillate Tank	1600 gallons	1600 gallons/yr	1600 gallons/yr	Diesel Fuel	8760 hr/yr (All Year)
EQT0313	UTL05 - TK-9010 Diesel Storage Tank	10000 gallons	10000 gallons/yr	10000 gallons/yr	Diesel Fuel	8760 hr/yr (All Year)
EQT0314	UTL06 - TK-9020 Diesel Storage Tank	10000 gallons	10000 gallons/yr	10000 gallons/yr	No. 2 Fuel Oil	8760 hr/yr (All Year)
EQT0315	UTL07 - TK-3002 No. 2 Fuel Oil Storage Tank	110000 gallons			Hydrochloric Acid	8760 hr/yr (All Year)
EQT0316	UTL08 - TK-6711 HCl Storage Tank	10000 gallons			Hydrochloric Acid	8760 hr/yr (All Year)
EQT0317	UTL09 - Cogeneration Unit No. 1		3757 MM ft^3/yr	44 MW		8760 hr/yr (All Year)
EQT0318	UTL10 - Cogeneration Unit No. 2		500 gallons/yr	500 gallons/yr	Hydrochloric Acid	8760 hr/yr (All Year)
EQT0319	UTL11 - Distillate Loading	11200 gallons	1051.2 MM gallons/yr	1.3 MM gallons/yr	Hydrochloric Acid	8760 hr/yr (All Year)
EQT0320	UTL12 - Hydrochloric Acid Tank TK-6731		1051.2 MM gallons/yr	1051.2 MM gallons/yr	Gasoline	8760 hr/yr (All Year)
EQT0321	UTL14 - Cooling Tower	3000 gallons		105000 gallons/yr	Hydrochloric Acid	8760 hr/yr (All Year)
EQT0322	UTL19 - Stores No. 1 Gasoline Tank	2000 gallons		36000 gallons/yr	Gasoline	8760 hr/yr (All Year)
EQT0323	WWT01 - TK-5931 HCl Storage Tank			6.83 MM BTU/hr		8760 hr/yr (All Year)
EQT0325	WWT03 - Thermal Oxidizer TO-330			1261 MM gallons/yr		8760 hr/yr (All Year)
EQT0326	WWT04 - Bioreactor R-410A			12 MM scf/yr		8760 hr/yr (All Year)
EQT0327	WWT05 - Sludge Drier Contractor	750000 gallons		1261 MM gallons/yr		8760 hr/yr (All Year)
EQT0328	WWT07 - Bioreactor R-410B			1261 MM gallons/yr		8760 hr/yr (All Year)
EQT0329	WWT08 - Bioreactor R-460A			1261 MM gallons/yr		8760 hr/yr (All Year)
EQT0330	WWT09 - Bioreactor R-460B	750000 gallons		1261 MM gallons/yr		8760 hr/yr (All Year)
EQT0331	WWT10 - TK-106BX HCl Storage Tank	8000 gallons		2.1 MM gallons/yr	Hydrochloric Acid	8760 hr/yr (All Year)
EQT0332	WWT11 - Diesel Firewater Pump 2-A			280 horsepower		150 hr/yr (All Year)
EQT0333	WWT12 - Diesel Firewater Pump 1-A			280 horsepower		120 hr/yr (All Year)
EQT0334	WWT13 - South Coag Water Pump P-9020BR					120 hr/yr (All Year)
EQT0335	WWT14 - Diesel SERW Pump P-9010B					120 hr/yr (All Year)
EQT0336	WWT15 - Diesel NERW Pump P-9010C					364 hr/yr (All Year)
EQT0337	WWT16 - North Coag Water Pump P-9020D					879 hr/yr (All Year)
EQT0338	WWT17 - WWTP Enclosed Flare					8750 hr/yr (All Year)
EQT0339	WWT18 - Sample Returns Tank					8760 hr/yr (All Year)
EQT0340	WWT19 - Bioreactor R-480A		1.23 MM gallons/yr	1.23 MM gallons/yr		8760 hr/yr (All Year)
EQT0341	WWT20 - Bioreactor R-480B		1261 MM gallons/yr	1261 MM gallons/yr		8760 hr/yr (All Year)
EQT0360	WWT03(a) - Offspec Storage Tank TK-210	750000 gallons	1261 MM gallons/yr	1261 MM gallons/yr		8760 hr/yr (All Year)
EQT0361	WWT03(b) - Stormwater Tank TK-211					8760 hr/yr (All Year)
EQT0362	WWT03(c) - Inlet Surge Tank/Wastewater Stripper TK-225					8760 hr/yr (All Year)
EQT0363	WWT03(d) - Equalization Tank TK-401					8760 hr/yr (All Year)
EQT0364	WWT03(e) - BOD Booster Tank TK-108					8760 hr/yr (All Year)
EQT0365	WWT03(f) - BOD Booster Tank TK-109					150 hr/yr (All Year)
EQT0641	WWT21 - Diesel Firewater Pump 2-B			280 horsepower		150 hr/yr (All Year)
EQT0642	WWT22 - Diesel Firewater Pump 2-C			280 horsepower		150 hr/yr (All Year)
EQT0643	WWT23 - Diesel Firewater Pump 1-B			280 horsepower		150 hr/yr (All Year)

INVENTORIES

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040012
 Permit Number: 2265-V5
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Utilities Plant						
EQT0644	WWT24 - Diesel Firewater Pump 1-C			250 horsepower		150 hr/yr (All Year)
EQT0646	UTL10(a) - Cogeneration Unit No. 2 Gas Turbine					8760 hr/yr (All Year)
EQT0647	UTL10(b) - Cogeneration No. 2 Heat Recovery Steam Generator					8760 hr/yr (All Year)
FUG0017	UTL17 - Utilities Plant Fugitives					8760 hr/yr (All Year)

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
Utilities Plant							
EQT0310	UTL01 - No. 1 Boiler (B-1)	42.4	82050	32.3	75	400	
EQT0311	UTL02 - No. 2 Boiler (B-2)	42.4	82050	32.29	75	400	
EQT0313	UTL05 - TK-9010 Diesel Storage Tank				12	70	
EQT0314	UTL06 - TK-9020 Diesel Storage Tank				12	70	
EQT0315	UTL07 - TK-3002 No. 2 Fuel Oil Storage Tank				15	70	
EQT0316	UTL08 - TK-6711 HCl Storage Tank	18.4	129074	12.2		12	70
EQT0317	UTL09 - Cogeneration Unit No. 1	63	395000	11.5		60	400
EQT0318	UTL10 - Cogeneration Unit No. 2	63	395000	11.5		95	305
EQT0321	UTL14 - Cooling Tower	38.5	465000	16		40	95
EQT0323	WWT01 - TK-5931 HCl Storage Tank					12	70
EQT0325	WWT03 - Thermal Oxidizer TO-330					60	175
EQT0326	WWT04 - Bioreactor R-410A	14.1	1500	1.5		70	
EQT0327	WWT05 - Sludge Drier Contactor	14	.03	.06		43.7	140
EQT0328	WWT07 - Bioreactor R-410B			70		30	70
EQT0329	WWT08 - Bioreactor R-460A			70		30	
EQT0330	WWT09 - Bioreactor R-460B			70		30	70
EQT0331	WWT10 - TK-106BX HCl Storage Tank	2.6	1500	3.5		12	70
EQT0338	WWT17 - WWTP Enclosed Flare					60	800
EQT0339	WWT18 - Sample Returns Tank					5	70
EQT0340	WWT19 - Bioreactor R-480A			70		30	
EQT0341	WWT20 - Bioreactor R-480B			70		30	70

Relationships:

ID	Description	Relationship	ID	Description
EQT0325	WWT03 - Thermal Oxidizer TO-330	Controls emissions from	EQT0360	WWT03(a) - Offspec Storage Tank TK-210
EQT0325	WWT03 - Thermal Oxidizer TO-330	Controls emissions from	EQT0361	WWT03(b) - Stormwater Tank TK-211

INVENTORIES

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040012
 Permit Number: 2265-V5
 Air - Title V Regular Permit Renewal

Relationships:

ID	Description	Relationship	ID	Description
EQT0325	WWT03 - Thermal Oxidizer TO-330	Controls emissions from	EQT0362	WWWT03(c) - Inlet Surge Tank/Wastewater Stripper TK-225
EQT0325	WWT03 - Thermal Oxidizer TO-330	Controls emissions from	EQT0363	WWWT03(d) - Equalization Tank TK-401
EQT0325	WWT03 - Thermal Oxidizer TO-330	Controls emissions from	EQT0364	WWWT03(e) - BOD Booster Tank TK-108
EQT0325	WWT03 - Thermal Oxidizer TO-330	Controls emissions from	EQT0365	WWWT03(f) - BOD Booster Tank TK-109
EQT0325B	WWT17 - WWTP Enclosed Flare	Controls emissions from, (Used as a backup control device for EQT0325)	EQT0360	WWWT03(a) - Offspec Storage Tank TK-210
EQT0338	WWT17 - WWTP Enclosed Flare	Controls emissions from, (Used as a backup control device for EQT0325)	EQT0361	WWWT03(b) - Stormwater Tank TK-211
EQT0338	WWT17 - WWTP Enclosed Flare	Controls emissions from, (Used as a backup control device for EQT0325)	EQT0362	WWWT03(c) - Inlet Surge Tank/Wastewater Stripper TK-225
EQT0338	WWT17 - WWTP Enclosed Flare	Controls emissions from, (Used as a backup control device for EQT0325)	EQT0363	WWWT03(d) - Equalization Tank TK-401
EQT0338	WWT17 - WWTP Enclosed Flare	Controls emissions from, (Used as a backup control device for EQT0325)	EQT0364	WWWT03(e) - BOD Booster Tank TK-108
EQT0338	WWT17 - WWTP Enclosed Flare	Controls emissions from, (Used as a backup control device for EQT0325)	EQT0365	WWWT03(f) - BOD Booster Tank TK-109
EQT0338	WWT17 - WWTP Enclosed Flare	Controls emissions from, (Used as a backup control device for EQT0325)	EQT0366	WWWT18 - Sample Returns Tank
EQT0338	WWT17 - WWTP Enclosed Flare	Controls emissions from	EQT0339	WWWT18 - Sample Returns Tank

Subject Item Groups:

ID	Group Type	Group Description
GRP0008	Equipment Group	WWWT CAP01 - Wastewater Flare and Thermal Oxidizer Emissions CAP
GRP0076	Equipment Group	WWWT CAP02 - Diesel Firewater Pumps Emissions Cap
UNF0002	Unit or Facility Wide	UNF0002 - Utilities Plant

Group Membership:

ID	Description	Member of Groups
EQT0325	WWT03 - Thermal Oxidizer TO-330	GRP0000000008
EQT0332	WWT11 - Diesel Firewater Pump 2-A	GRP0000000076
EQT0333	WWT12 - Diesel Firewater Pump 1-A	GRP0000000076
EQT0338	WWT17 - WWTP Enclosed Flare	GRP0000000008
EQT0641	WWT21 - Diesel Firewater Pump 2-B	GRP0000000076
EQT0642	WWT22 - Diesel Firewater Pump 2-C	GRP0000000076
EQT0643	WWT23 - Diesel Firewater Pump 1-B	GRP0000000076
EQT0644	WWT24 - Diesel Firewater Pump 1-C	GRP0000000076

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multplier	Units Of Measure
1540	Steam Gen. Units-Natural Gas or Comb Non-Fossil Fuels (Rated Capacity)	350	1,000 Lbs/Hr

INVENTORIES

AI ID: 2049 - BASF Corp - Geismar Site
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 Air - Title V Regular Permit Renewal

Fee Number	Air Contaminant Source Co-Generation (Capital Cost)	Multipiler	Units Of Measure
1510		204	\$100,000

SIC Codes:			
2813	Industrial gases	A12049	
2869	Industrial organic chemicals, nec	A12049	
4939	Combination utilities, nec	UNF002	
4961	Steam and air conditioning supply	UNF002	

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040012
 Permit Number: 2265-V5
 Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Utilities Plant															
EQT 0310 utl01	23.97	530.00	105.00	79.91	88.85	260.90	2.17	18.90	9.50	0.17	207.76	0.75	1.57	1.57	6.88
EQT 0311 utl02	23.97	530.00	105.00	79.91	88.85	275.32	2.17	18.90	9.50	0.17	207.76	0.75	1.57	1.57	6.88
EQT 0312 utl03													0.08	0.08	0.35
EQT 0313 utl05													0.001	0.001	0.01
EQT 0314 utl06													0.001	0.001	0.01
EQT 0315 utl07													0.001	0.001	<0.01
EQT 0317 utl09	17.2	18.26	75.13	98.51	253.00	389.56	2.15	4.50	9.39	0.26	0.27	1.13	0.60	0.64	2.63
EQT 0318 utl10	67.14	83.93	294.07	72.00	80.00	315.40	4.13	5.40	18.09	0.59	0.74	2.58	3.28	4.10	14.37
EQT 0319 utl11													1.40	1.40	<0.01
EQT 0321 utl14													0.28	0.28	1.22
EQT 0322 utl19													0.42	0.52	1.83
EQT 0325 wwt03													<0.001	<0.001	<0.01
EQT 0326 wwt04													0.17	0.19	0.75
EQT 0327 wwt05													0.42	0.52	1.83
EQT 0328 wwt07													0.17	0.19	0.75
EQT 0329 wwt08													0.42	0.52	1.83
EQT 0330 wwt09													0.17	0.19	0.75
EQT 0332 wwt11	1.86			8.64			0.61			0.57			0.69		
EQT 0333 wwt12	1.86			8.64			0.61			0.57			0.69		
EQT 0334 wwt13	3.34	3.34	0.20	15.50	0.93	1.10	1.10	0.07	1.03	0.06	1.47	1.47	1.47	1.47	0.09
EQT 0335 wwt14	2.00	2.00	0.12	9.30	0.56	0.66	0.04	0.62	0.62	0.04	0.88	0.88	0.88	0.88	0.05
EQT 0336 wwt15	1.67	1.67	0.10	7.75	0.47	0.55	0.03	0.51	0.51	0.03	0.73	0.73	0.73	0.73	0.04
EQT 0337 wwt16	3.34	3.34	0.60	15.50	15.50	2.79	1.10	0.20	1.03	0.18	1.47	1.47	1.47	1.47	0.26

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2049 - BASF Corp - Geismar Site

Activity Number: PER20040012

Permit Number: 2265-V5

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Utilities Plant															
EQT 0338 wwt17	0.15			1.62			0.01			0.001			1.54		
EQT 0339 wwt18										0.001	0.001	<0.01			
EQT 0340 wwt19										0.42	0.52	1.83			
EQT 0341 wwt20										0.24	0.33	1.05			
EQT 0641 wwt21	1.86			8.64			0.61			0.57			0.69		
EQT 0642 wwt22	1.86			8.64			0.61			0.57			0.69		
EQT 0643 wwt23	1.86			8.64			0.61			0.57			0.69		
EQT 0644 wwt24	1.86			8.64			0.61			0.57			0.69		
FUG 0017	0.18	0.18	0.78												
GRP 0088 WWT CAP01	2.13			9.33	2.27		9.93	0.05		0.20	0.004		0.02	1.74	7.64
GRP 0076 WWT CAP02	11.17			0.84	51.86		3.89	3.65		0.27	3.41		0.26	4.12	0.31

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

Emission rates Notes:

EQT 0310	CO	Max lb/hr	Maximum CO hourly emissions reflect startup/shutdown conditions	Which Months: All Year
EQT 0311	CO	Max lb/hr	Maximum CO hourly emissions reflect startup/shutdown conditions.	Which Months: All Year
EQT 0325	PM10	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01	Which Months: All Year
EQT 0325	SO2	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01	Which Months: All Year
EQT 0325	NOx	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01	Which Months: All Year
EQT 0325	CO	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01	Which Months: All Year
EQT 0325	VOC	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01	Which Months: All Year
EQT 0332	PM10	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02	Which Months: All Year
EQT 0332	SO2	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02	Which Months: All Year
EQT 0332	NOx	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02	Which Months: All Year
EQT 0332	CO	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02	Which Months: All Year
EQT 0332	VOC	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02	Which Months: All Year

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2049 - BASF Corp - Geismar Site
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EMISSION RATES FOR CRITERIA POLLUTANTS

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GRP 0008	PM10	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	SO2	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	SO2	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	NOx	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	NOx	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	CO	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	CO	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	VOC	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	VOC	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0076	PM10	Avg lb/hr	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	PM10	Tons/Year	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	SO2	Avg lb/hr	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	SO2	Tons/Year	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	NOx	Avg lb/hr	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	NOx	Tons/Year	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	CO	Avg lb/hr	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	CO	Tons/Year	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	VOC	Avg lb/hr	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	VOC	Tons/Year	Diesel Firewater Pumps Emissions Cap	Which Months: All Year

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2049 - BASF Corp - Geismar Site

Activity Number: PER20040012

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Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0310 UTL01	Formaldehyde	0.02	0.02	0.10
	Sulfur Trioxide	0.01	7.54	0.03
	n-Hexane	0.51	0.51	2.25
EQT 0311 UTL02	Formaldehyde	0.02	0.02	0.10
	Sulfur Trioxide	0.01	7.54	0.03
	n-Hexane	0.51	0.51	2.25
EQT 0316 UTL08	Hydrochloric acid	< 0.001	< 0.001	< 0.01
EQT 0317 UTL09	1,3-Butadiene	< 0.001	< 0.001	< 0.01
	Acetaldehyde	0.02	0.02	0.08
	Acrolein	0.003	0.003	0.01
	Benzene	0.005	0.01	0.02
	Ethyl benzene	0.01	0.02	0.06
	Formaldehyde	0.31	0.38	1.34
	Naphthalene	0.001	0.001	< 0.01
	Polynuclear Aromatic Hydrocarbons	0.001	0.001	< 0.01
	Propylene oxide	0.01	0.02	0.05
	Toluene	0.06	0.07	0.24
EQT 0318 UTL10	Xylene (mixed isomers)	0.03	0.03	0.12
	Acetaldehyde	0.02	0.02	0.08
	Acrolein	0.003	0.004	0.01
	Ammonia	10.67	12.00	46.74
	Benzene	0.01	0.01	0.03
	Ethyl benzene	0.01	0.02	0.06
	Formaldehyde	0.34	0.42	1.48
	Polynuclear Aromatic Hydrocarbons	0.001	0.001	0.004
	Propylene oxide	0.01	0.02	0.06
	Toluene	0.06	0.07	0.26
EQT 0320 UTL12	Xylene (mixed isomers)	0.03	0.04	0.12
	n-Hexane	0.52	0.65	2.27
EQT 0321 UTL14	Hydrochloric acid	< 0.001	< 0.001	< 0.01
EQT 0323 WWTO1	Chlorine	0.001	0.001	0.01
EQT 0325 WWTO9	Hydrochloric acid	< 0.001	< 0.001	< 0.01
	1,1,1-Trichloroethane		0.01	
	1,1,2-Trichloroethane		0.01	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0325 WWTO3	1,1-Dichloroethane		0.01	
	1,2-Dichloroethane		0.03	
	Ammonia		< 0.001	
	Aniline		< 0.001	
	Benzene		0.14	
	Carbon tetrachloride		0.01	
	Chlorobenzene		0.04	
	Chloroethane		0.04	
	Chloroform		0.01	
	Dichloromethane		0.003	
	Ethyl benzene		0.06	
	Formaldehyde		0.001	
	Hydrochloric acid		1.22	
	Methanol		0.001	
	Methyl chloride		0.01	
	Naphthalene		0.02	
	Polynuclear Aromatic Hydrocarbons		0.02	
	Propylene oxide		0.19	
	Styrene		0.07	
	Tetrachloroethylene		0.002	
	Toluene		0.46	
	Trichloroethylene		0.01	
	Vinyl chloride		0.04	
	Xylene (mixed isomers)		0.21	
EQT 0326 WWTO4	n-Hexane		0.01	
	n-butyl alcohol		< 0.001	
	ortho-Toluidine		< 0.001	
	Ammonia	< 0.001	< 0.001	< 0.01
	Aniline	< 0.001	< 0.001	< 0.01
	Benzene	0.003	0.004	0.01
	Chlorobenzene	< 0.001	< 0.001	< 0.01
	Ethyl benzene	0.001	0.002	0.01
	Hydrogen cyanide	< 0.001	< 0.001	0.001
	Methanol	0.001	0.001	< 0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2049 - BASF Corp - Geismar Site

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0326 WWT04	Propylene oxide	0.003	0.003	0.01
	Styrene	0.15	0.18	0.64
	Toluene	0.01	0.02	0.06
	Xylene (mixed isomers)	0.02	0.02	0.08
	n-Hexane	< 0.001	< 0.001	< 0.01
	n-butyl alcohol	0.02	0.02	0.08
	ortho-Toluidine	< 0.001	< 0.001	< 0.01
EQT 0327 WWT05	1,2-Dichloroethane	< 0.001	< 0.001	< 0.01
	Ammonia	< 0.001	< 0.001	< 0.01
	Aniline	< 0.001	< 0.001	< 0.01
	Chlorobenzene	< 0.001	< 0.001	< 0.01
	Ethylene glycol	< 0.001	< 0.001	< 0.01
	Ethylene oxide	< 0.001	< 0.001	< 0.01
	Hydrochloric acid	< 0.001	< 0.001	< 0.01
	Methanol	< 0.001	< 0.001	< 0.01
	Phenol	< 0.001	< 0.001	< 0.01
	Toluene	< 0.001	< 0.001	< 0.01
	n-Hexane	< 0.001	< 0.001	< 0.01
	n-butyl alcohol	< 0.001	< 0.001	< 0.01
EQT 0328 WWT07	1,2-Dichloroethane	< 0.001	< 0.001	< 0.01
	Aniline	< 0.001	< 0.001	< 0.01
	Chlorobenzene	0.001	0.001	< 0.01
	Ethylene glycol	0.002	0.002	0.01
	Ethylene oxide	0.001	0.001	< 0.01
	Methanol	0.11	0.13	0.50
	Phenol	< 0.001	< 0.001	< 0.01
	Toluene	0.003	0.003	0.01
	n-Hexane	< 0.001	< 0.001	< 0.01
	n-butyl alcohol	0.04	0.04	0.15
EQT 0329 WWT08	Ammonia	< 0.001	< 0.001	< 0.01
	Aniline	< 0.001	< 0.001	< 0.01
	Benzene	0.003	0.004	0.01
	Chlorobenzene	< 0.001	< 0.001	< 0.01
	Ethyl benzene	0.001	0.002	0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0329 WWT08	Hydrogen cyanide	< 0.001	< 0.001	0.001
	Methanol	0.001	0.001	< 0.01
	Propylene oxide	0.003	0.003	0.01
	Styrene	0.15	0.18	0.64
	Toluene	0.01	0.02	0.06
	Xylene (mixed isomers)	0.02	0.02	0.08
	n-Hexane	< 0.001	< 0.001	< 0.01
	n-butyl alcohol	0.02	0.02	0.08
	ortho-Toluidine	< 0.001	< 0.001	< 0.01
EQT 0330 WWT09	1,2-Dichloroethane	< 0.001	< 0.001	< 0.01
	Aniline	< 0.001	< 0.001	< 0.01
	Chlorobenzene	0.001	0.001	< 0.01
	Ethylene glycol	0.002	0.002	0.01
	Ethylene oxide	0.001	0.001	< 0.01
	Methanol	0.11	0.13	0.50
	Phenol	< 0.001	< 0.001	< 0.01
	Toluene	0.003	0.003	0.01
	n-Hexane	< 0.001	< 0.001	< 0.01
	n-butyl alcohol	0.04	0.04	0.15
EQT 0331 WWT10	Hydrochloric acid	0.002	0.002	0.01
EQT 0332 WWT11	1,3-Butadiene		< 0.001	
	Acetaldehyde		0.002	
	Acrolein		< 0.001	
	Benzene		0.002	
	Formaldehyde		0.002	
	Polynuclear Aromatic Hydrocarbons		< 0.001	
	Propylene		0.005	
	Toluene		0.001	
	Xylene (mixed isomers)		0.001	
EQT 0333 WWT12	1,3-Butadiene		< 0.001	
	Acetaldehyde		0.002	
	Acrolein		< 0.001	
	Benzene		0.002	
	Formaldehyde		0.002	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2049 - BASF Corp - Geismar Site

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0333 WWT12	Polynuclear Aromatic Hydrocarbons		< 0.001	
	Propylene		0.005	
	Toluene		0.001	
	Xylene (mixed isomers)		0.001	
EQT 0334 WWT13	Acetaldehyde	0.12	0.12	0.01
	Formaldehyde	0.12	0.12	0.01
EQT 0335 WWT14	Acetaldehyde	0.07	0.07	< 0.01
	Formaldehyde	0.07	0.07	< 0.01
EQT 0336 WWT15	Acetaldehyde	0.06	0.06	< 0.01
	Formaldehyde	0.06	0.06	< 0.01
EQT 0337 WWT16	Acetaldehyde	0.12	0.12	0.02
	Formaldehyde	0.12	0.12	0.02
EQT 0338 WWT17	1,1,1-Trichloroethane		0.01	
	1,1,2-Trichloroethane		0.01	
	1,1-Dichloroethane		0.01	
	1,2-Dichloroethane		0.03	
	Ammonia		< 0.001	
	Aniline		< 0.001	
	Benzene		0.14	
	Carbon tetrachloride		0.01	
	Chlorobenzene		0.04	
	Chloroethane		0.04	
	Chloroform		0.01	
	Dichloromethane		0.003	
	Ethyl benzene		0.06	
	Formaldehyde		< 0.001	
	Hydrochloric acid		6.11	
	Methanol		0.001	
	Methyl chloride		0.01	
	Naphthalene		0.02	
	Polynuclear Aromatic Hydrocarbons		0.02	
	Propylene oxide		0.19	
	Styrene		0.07	
	Tetrachloroethylene		0.003	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0338 WWT17	Toluene		0.46	
	Trichloroethylene		0.01	
	Vinyl chloride		0.04	
	Xylene (mixed isomers)		0.21	
	n-Hexane		0.003	
	n-butyl alcohol		< 0.001	
	ortho-Toluidine		< 0.001	
EQT 0339 WWT18	Aniline	< 0.001	< 0.001	< 0.01
	Benzene	< 0.001	< 0.001	< 0.01
	Chlorobenzene	< 0.001	< 0.001	< 0.01
	Ethyl benzene	< 0.001	< 0.001	< 0.01
	Methanol	< 0.001	< 0.001	< 0.01
	Naphthalene	< 0.001	< 0.001	< 0.01
	Styrene	< 0.001	< 0.001	< 0.01
	Toluene	< 0.001	< 0.001	< 0.01
	Xylene (mixed isomers)	< 0.001	< 0.001	< 0.01
	n-butyl alcohol	< 0.001	< 0.001	< 0.01
EQT 0340 WWT19	Ammonia	< 0.001	< 0.001	< 0.01
	Aniline	< 0.001	< 0.001	< 0.01
	Benzene	0.003	0.004	0.01
	Chlorobenzene	< 0.001	< 0.001	< 0.01
	Ethyl benzene	0.001	0.002	0.01
	Hydrogen cyanide	< 0.001	< 0.001	0.001
	Methanol	0.001	0.001	< 0.01
	Propylene oxide	0.003	0.003	0.01
	Styrene	0.15	0.18	0.64
	Toluene	0.01	0.02	0.06
	Xylene (mixed isomers)	0.02	0.02	0.08
	n-Hexane	< 0.001	< 0.001	< 0.01
	n-butyl alcohol	0.02	0.02	0.08
	ortho-Toluidine	< 0.001	< 0.001	< 0.01
EQT 0341 WWT20	Ammonia	< 0.001	< 0.001	< 0.01
	Aniline	< 0.001	< 0.001	< 0.01
	Benzene	< 0.001	< 0.001	< 0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0341 WWT20	Chlorobenzene	< 0.001	< 0.001	< 0.01
	Ethyl benzene	< 0.001	< 0.001	< 0.01
	Methanol	< 0.001	< 0.001	< 0.01
	Naphthalene	< 0.001	< 0.001	< 0.01
	Styrene	< 0.001	0.001	< 0.01
	Toluene	< 0.001	< 0.001	< 0.01
	Xylene (mixed Isomers)	< 0.001	< 0.001	< 0.01
	n-Hexane	< 0.001	< 0.001	< 0.01
	n-butyl alcohol	< 0.001	< 0.001	< 0.01
EQT 0641 WWT21	ortho-Tolidine	< 0.001	< 0.001	< 0.01
	1,3-Butadiene		< 0.001	
	Acetaldehyde		0.002	
	Acrolein		< 0.001	
	Benzene		0.002	
	Formaldehyde		0.002	
	Polynuclear Aromatic Hydrocarbons		< 0.001	
	Propylene		0.005	
	Toluene		0.001	
EQT 0642 WWT22	Xylene (mixed isomers)		0.001	
	1,3-Butadiene		< 0.001	
	Acetaldehyde		0.002	
	Acrolein		< 0.001	
	Benzene		0.002	
	Formaldehyde		0.002	
	Polynuclear Aromatic Hydrocarbons		< 0.001	
	Propylene		0.005	
	Toluene		0.001	
EQT 0643 WWT23	Xylene (mixed isomers)		0.001	
	1,3-Butadiene		< 0.001	
	Acetaldehyde		0.002	
	Acrolein		< 0.001	
	Benzene		0.002	
	Formaldehyde		0.002	
EQT 0643 WWT23	Polynuclear Aromatic Hydrocarbons		< 0.001	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2049 - BASF Corp - Geismar Site

Activity Number: PER20040012

Permit Number: 2265-V5

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EOT 0643 WWT23	Propylene		0.005	
	Toluene		0.001	
	Xylene (mixed isomers)		0.001	
EOT 0644 WWT24	1,3-Butadiene		< 0.001	
	Acetaldehyde		0.002	
	Acrolein		< 0.001	
	Benzene		0.002	
	Formaldehyde		0.002	
	Polynuclear Aromatic Hydrocarbons		< 0.001	
	Propylene		0.005	
	Toluene		0.001	
	Xylene (mixed isomers)		0.001	
FUG 0017 UTL17	Ammonia	0.14	0.14	0.59
GRP 0008 WWT CAP01	1,1,1-Trichloroethane	0.01		0.03
	1,1,2-Trichloroethane	0.01		0.03
	1,1-Dichloroethane	0.01		0.03
	1,2-Dichloroethane	0.02		0.10
	Ammonia	< 0.001		< 0.01
	Aniline	< 0.001		< 0.01
	Benzene	0.17		0.73
	Carbon tetrachloride	0.01		0.02
	Chlorobenzene	0.05		0.20
	Chloroethane	0.03		0.14
	Chloroform	0.01		0.04
	Dichloromethane	0.001		0.01
	Ethyl benzene	0.07		0.29
	Formaldehyde	0.001		0.01
	Hydrochloric acid	1.54		6.73
	Methanol	0.001		0.01
	Methyl chloride	0.003		0.01
	Naphthalene	0.02		0.09
	Polynuclear Aromatic Hydrocarbons	0.02		0.10
	Propylene oxide	0.22		0.97
	Styrene	0.08		0.36

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2049 - BASF Corp - Geismar Site

Activity Number: PER20040012

Permit Number: 2265-V5

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
GRP 0008 WWT CAP01	Tetrachloroethylene	0.001		< 0.01
	Toluene	0.54		2.36
	Trichloroethylene	0.01		0.03
	Vinyl chloride	0.03		0.14
	Xylene (mixed isomers)	0.24		1.07
	n-Hexane	0.01		0.05
	n-butyl alcohol	< 0.001		< 0.01
GRP 0076 WWT CAP02	ortho-Tolidine	< 0.001		< 0.01
	1,3-Butadiene	< 0.001		< 0.01
	Acetaldehyde	0.009		< 0.01
	Acrolein	0.001		< 0.01
	Benzene	0.011		< 0.01
	Formaldehyde	0.014		< 0.01
	Polynuclear Aromatic Hydrocarbons	0.002		< 0.01
UNF 0002 UNF0002	Toluene	0.005		< 0.01
	Xylene (mixed isomers)	0.003		< 0.01
	1,1,1-Trichloroethane			0.03
	1,1,2-Trichloroethane			0.03
	1,1-Dichloroethane			0.03
	1,2-Dichloroethane			0.13
	1,3-Butadiene			0.02
UNF 0002 UNF0002	Acetaldehyde			0.22
	Acrolein			0.03
	Ammonia			47.39
	Aniline			0.09
	Benzene			0.84
	Carbon tetrachloride			0.02
	Chlorine			0.01
	Chlorobenzene			0.28
	Chloroethane			0.14
	Chloroform			0.04
	Dichloromethane			0.01
	Ethyl benzene			0.46
	Ethylene glycol			0.03

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AI ID: 2049 - BASF Corp - Geismar Site

Activity Number: PER20040012

Permit Number: 2265-V5

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Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0002 UNF0002	Ethylene oxide			0.03
	Formaldehyde			3.09
	Hydrochloric acid			6.78
	Methanol			1.07
	Methyl chloride			0.01
	Naphthalene			0.12
	Phenol			0.03
	Polynuclear Aromatic Hydrocarbons			0.12
	Propylene oxide			1.11
	Styrene			2.30
	Sulfur Trioxide			0.06
	Tetrachloroethylene			0.01
	Toluene			3.10
	Trichloroethylene			0.03
	Vinyl chloride			0.14
	Xylene (mixed isomers)			1.58
	n-Hexane			6.89
	n-butyl alcohol			0.58
	ortho-Toluidine			0.05

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

Emission Rates Notes:

EQT 0325	1,1,1-Trichloroethane	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	1,1,2-Trichloroethane	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	1,1-Dichloroethane	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	1,2-Dichloroethane	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Ammonia	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Aniline	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Benzene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Carbon tetrachloride	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Chlorobenzene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Chloroethane	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Chloroform	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

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EQT 0325	Dichloromethane	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Ethyl benzene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Formaldehyde	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Hydrochloric acid	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Methanol	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Methyl chloride	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Naphthalene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Polynuclear Aromatic Hydrocarbons	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Propylene oxide	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Styrene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Tetrachloroethylene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Toluene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Trichloroethylene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Vinyl chloride	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	Xylene (mixed isomers)	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	n-Hexane	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	n-butyl alcohol	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0325	ortho-Toluidine	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0332	1,3-Butadiene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0332	Acetaldehyde	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0332	Acrolein	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0332	Benzene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0332	Formaldehyde	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0332	Polynuclear Aromatic Hydrocarbons	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0332	Propylene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0332	Toluene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0332	Xylene (mixed isomers)	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0333	1,3-Butadiene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0333	Acetaldehyde	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0333	Acrolein	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0333	Benzene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0333	Formaldehyde	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0333	Polynuclear Aromatic Hydrocarbons	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**AI ID: 2049 - BASF Corp - Geismar Site****Activity Number: PER20040012****Permit Number: 2265-V5****Air - Title V Regular Permit Renewal**

EQT 0333	Propylene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0333	Toluene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0333	Xylene (mixed isomers)	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0338	1,1,2-Trichloroethane	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	1,1-Dichloroethane	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	1,2-Dichloroethane	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Ammonia	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Aniline	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Benzene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Carbon tetrachloride	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Chlorobenzene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Chloroethane	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Chloroform	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Dichloromethane	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Ethyl benzene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Formaldehyde	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Hydrochloric acid	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Methanol	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Methyl chloride	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Naphthalene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Polynuclear Aromatic Hydrocarbons	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Propylene oxide	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Slyrene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Tetrachloroethylene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Toluene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Trichloroethylene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Vinyl chloride	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	Xylene (mixed isomers)	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	n-Hexane	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	n-butyl alcohol	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0338	ortho-Toluidine	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01 Which Months: All Year
EQT 0641	1,3-Butadiene	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0641	Acetaldehyde	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year
EQT 0641	Acrolein	Max lb/hr	The hourly average emission rate and annual emission rate are included in the Diesel Firewater Pumps Emissions Cap, WWT CAP02 Which Months: All Year

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

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Permit Number: 2265-V5

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EQT 0644	isomers)		Emissions Cap, WWT CAP02 Which Months: All Year	
GRP 0008	1,1,1-Trichloroethane	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	1,1,1-Trichloroethane	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	1,1,2-Trichloroethane	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	1,1,2-Trichloroethane	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	1,1-Dichloroethane	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	1,1-Dichloroethane	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	1,2-Dichloroethane	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Ammonia	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Ammonia	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Aniline	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Aniline	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Benzene	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Benzene	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Carbon tetrachloride	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Carbon tetrachloride	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Chlorobenzene	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Chlorobenzene	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Chloroethane	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Chloroethane	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Chloroform	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Chloroform	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Dichloromethane	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Dichloromethane	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Ethyl benzene	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Formaldehyde	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Formaldehyde	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Hydrochloric acid	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Hydrochloric acid	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Methanol	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Methanol	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Methyl chloride	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Methyl chloride	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Naphthalene	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Naphthalene	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Polynuclear Aromatic Hydrocarbons	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Polynuclear Aromatic Hydrocarbons	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Propylene oxide	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Propylene oxide	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Styrene	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Styrene	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Tetrachloroethylene	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Tetrachloroethylene	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Toluene	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Toluene	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Trichloroethylene	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Trichloroethylene	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Vinyl chloride	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Vinyl chloride	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Xylene (mixed isomers)	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	Xylene (mixed isomers)	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	n-Hexane	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	n-Hexane	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2049 - BASF Corp - Geismar Site

Activity Number: PER20040012

Permit Number: 2265-V5

Air - Title V Regular Permit Renewal

GRP 0008	n-butyl alcohol	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	ortho-Toluidine	Avg lb/hr	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0008	ortho-Toluidine	Tons/Year	Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap	Which Months: All Year
GRP 0076	1,3-Butadiene	Avg lb/hr	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	1,3-Butadiene	Tons/Year	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	Acetaldehyde	Avg lb/hr	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	Acetaldehyde	Tons/Year	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	Acrolein	Avg lb/hr	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	Acrolein	Tons/Year	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	Benzene	Avg lb/hr	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	Benzene	Tons/Year	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	Formaldehyde	Avg lb/hr	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	Formaldehyde	Tons/Year	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	Polynuclear Aromatic	Avg lb/hr	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	Hydrocarbons	Tons/Year	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	Polynuclear Aromatic			
GRP 0076	Hydrocarbons			
GRP 0076	Toluene	Avg lb/hr	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	Toluene	Tons/Year	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	Xylene (mixed isomers)	Avg lb/hr	Diesel Firewater Pumps Emissions Cap	Which Months: All Year
GRP 0076	Xylene (mixed isomers)	Tons/Year	Diesel Firewater Pumps Emissions Cap	Which Months: All Year

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040012
 Permit Number: 2265-V5
 Air - Title V Regular Permit Renewal

EQT0310 UTL01 - No. 1 Boiler (B-1)

- 1 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
 Nitrogen oxides <= 0.166 lb/MMBTU.
- 2 [LAC 33:III.1313.C] Which Months: May-Sep Statistical Basis: Thirty-day rolling average
 Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33:III.2201.E.1.c.i or the method in LAC 33:III.2201.E.1.c.ii.
- 3 [LAC 33:III.2201.E.1.c.i] Fuel monitored by totalizer continuously. Monitor gas and/or liquid fuel usage with a totalizing fuel meter.
- 4 [LAC 33:III.2201.E.1.c] Which Months: May-Sep Statistical Basis: None specified
 Oxygen monitored by the regulation's specified method(s) continuously. Monitor oxygen concentration with an oxygen monitor.
- 5 [LAC 33:III.2201.H.1.b.i] Which Months: May-Sep Statistical Basis: None specified
 Nitrogen oxides monitored by continuous emission monitor (CEM) continuously to demonstrate continuous compliance with the NOx emission factors of LAC 33:III.2201.D or E. Ensure that the CEMS meets all of the requirements of 40 CFR Part 60.13 and performance specification 2 of 40 CFR 60, Appendix B, or the requirements of 40 CFR Part 75 for units regulated under the Acid Rain Program.
- 6 [LAC 33:III.2201.H.1.b.ii] Which Months: May-Sep Statistical Basis: None specified
 Carbon monoxide monitored by the regulation's specified method(s) continuously. Monitor carbon monoxide with a CO monitor that meets all of the requirements of performance specification 4 of 40 CFR 60, Appendix B.
- 7 [LAC 33:III.2201.H.1.b.iii] Which Months: May-Sep Statistical Basis: None specified
 Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.
- 8 [LAC 33:III.2201.H.1.b.iv] Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.
- 9 [LAC 33:III.2201.I.1] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.
- 10 [LAC 33:III.2201.I.1] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.
- 11 [LAC 33:III.2201.I.2] Owner or operator is authorized to annually test fire the boiler using fuel oil for a period of forty-five (45) hours per year. Emissions during this test period will be considered as a miscellaneous routine activity under General Conditions XVII. Permittee will notify the Office of Environmental Compliance, Enforcement Division prior to beginning fuel oil testing.
- 12 [LAC 33:III.2201.I] Permittee shall burn No. 2 and/or No. 6 fuel oil with Sulfur <= 0.70 % by weight content only when natural gas becomes unavailable or economically infeasible (State-Only Requirement).
- 13 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Average
- 14 [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040012
 Permit Number: 2265-V5
 Air - Title V Regular Permit Renewal

EQT0310 UTL01 - No. 1 Boiler (B-1)

When burning No. 2 and No. 6 fuel oil, emissions from the boiler shall be limited to the following hourly emission rates:

	Avg lb/hr	Max lb/hr
PM10	18.90	18.90
SO2	208.30	208.30
NOx	199.00	199.00
CO	9.50	9.50
VOC	1.40	1.40
S03	3.85	3.85

(State-Only Requirement).

When burning No. 2 and No. 6 fuel oil: A record of the fuel oil usage and calculated emissions shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. A report listing fuel oil usage and calculated emissions from the boiler shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31st for the preceding calendar year (State-Only Requirement).

When burning No. 2 and No. 6 fuel oil: If the boiler is fired with fuel oil for more than 720 hours in any ninety (90) consecutive days, permittee shall test the boiler at maximum fuel oil firing rate. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 5 - Determination of Particulate Emissions from Stationary Sources, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources (State-Only Requirement).

When burning No. 2 and No. 6 fuel oil: Permittee shall report the date and reasons for a change to fuel oil to the Office of Environmental Compliance, Enforcement Division within ten (10) days of the change. A record of the fuel oil usage and calculated emissions shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

EQT0311 UTL02 - No. 2 Boiler (B-2)

19 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Nitrogen oxides <= 0.248 lb/MMBTU.

Which Months: May-Sep Statistical Basis: Thirty-day rolling average Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33:III.2201.E.1.c.i or the method in LAC 33:III.2201.E.1.c.ii.

Fuel monitored by totalizer continuously. Monitor gas and/or liquid fuel usage with a totalizing fuel meter.
 Which Months: May-Sep Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040012
 Permit Number: 2265-V5
 Air - Title V Regular Permit Renewal

EQT0311 UTL02 - No. 2 Boiler (B-2)

- 24 [LAC 33:III.2201.H.1.b.ii] Oxygen monitored by the regulation's specified method(s) continuously. Monitor oxygen concentration with an oxygen monitor.
 Which Months: May-Sep Statistical Basis: None specified
- 25 [LAC 33:III.2201.H.1.b.iii] Nitrogen oxides monitored by continuous emission monitor (CEM) continuously to demonstrate compliance with the NOx emission factors of LAC 33:III.2201.D or E. Ensure that the CEMS meets all of the requirements of 40 CFR Part 60.13 and performance specification 2 of 40 CFR 60, Appendix B, or the requirements of 40 CFR Part 75 for units regulated under the Acid Rain Program.
 Which Months: May-Sep Statistical Basis: None specified
- 26 [LAC 33:III.2201.H.1.b.iv] Carbon monoxide monitored by the regulation's specified method(s) continuously. Monitor carbon monoxide with a CO monitor that meets all of the requirements of performance specification 4 of 40 CFR 60, Appendix B.
 Which Months: May-Sep Statistical Basis: None specified
- 27 [LAC 33:III.2201.H.9] Fuel monitored by the regulation's specified method(s) daily. Analyze the fuel gas composition according to the methods listed in LAC 33:III.2201.G.5.g.
 Which Months: May-Sep Statistical Basis: None specified
- 28 [LAC 33:III.2201.H.1.b.v] Fuel recordkeeping by electronic or hard copy daily. Record fuel gas composition.
- 29 [LAC 33:III.2201.I.1] Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.
- 30 [LAC 33:III.2201.I.1] Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.
- 31 [LAC 33:III.2201.I.2] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.
- 32 [LAC 33:III.2201.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.
- 33 [LAC 33:III.501.C.6] Owner or operator is authorized to annually test fire the boiler using fuel oil for a period of forty-five (45) hours per year. Emissions during this test period will be considered as a miscellaneous routine activity under General Conditions XVII. Permittee will notify the Office of Environmental Compliance, Enforcement Division prior to beginning fuel oil testing.
- 34 [LAC 33:III.501.C.6] Permittee shall burn No. 2 and/or No. 6 fuel oil with Sulfur <= 0.70 % by weight content only when natural gas becomes unavailable or economically infeasible (State-Only Requirement).
- 35 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Average When burning No. 2 and No. 6 fuel oil, emissions from the boiler shall be limited to the following emission rates:
- | | Avg lb/hr | Max lb/hr |
|------|-----------|-----------|
| PM10 | 19.00 | 19.00 |
| SO2 | 208.30 | 208.30 |
| NOx | 199.00 | 199.00 |
| CO | 9.50 | 9.50 |
| VOC | 1.40 | 1.40 |
| SO3 | 3.85 | 3.85 |
- (State-Only Requirement).

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
Activity Number: PER20040012
Permit Number: 2265-V5
Air - Title V Regular Permit Renewal

EQT0311 UTL02 - No. 2 Boiler (B-2)

36 [LAC 33:III.501.C.6]

When burning No. 2 and No. 6 fuel oil: A record of the fuel oil usage and calculated emissions shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. A report listing fuel oil usage and calculated emissions from the boiler shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31st for the preceding calendar year (State-Only Requirement).

37 [LAC 33:III.501.C.6]

When burning No. 2 and No. 6 fuel oil: If the boiler is fired with fuel oil for more than 720 hours in any ninety (90) consecutive days, permittee shall test the boiler at maximum fuel oil firing rate. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 5 - Determination of Particulate Emissions from Stationary Sources, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources, and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources (State-Only Requirement).

38 [LAC 33:III.501.C.6]

When burning No. 2 and No. 6 fuel oil: Permittee shall report the date and reasons for a change to fuel oil to the Office of Environmental Compliance, Enforcement Division within ten (10) days of the change. A record of the fuel oil usage and calculated emissions shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division (State-Only Requirement).

EQT0312 UTL03 - TK-3241 Natural Gas Distillate Tank

39 [LAC 33:III.2103.A]
 40 [LAC 33:III.2103.H.3]
 41 [LAC 33:III.2103.I]
 42 [LAC 33:III.5109.A]

Equip with a submerged fill pipe.

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source emits Class I and/or Class II TAP in trace quantities. No further control is required.

EQT0313 UTL04 - TK-9010 Diesel Storage Tank

43 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source emits Class I and/or Class II TAP in trace quantities. No further control is required.

EQT0314 UTL06 - TK-9020 Diesel Storage Tank

44 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source emits Class I and/or Class II TAP in trace quantities. No further control is required.

EQT0315 UTL07 - TK-3002 No. 2 Fuel Oil Storage Tank

45 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source emits Class I and/or Class II TAP in trace quantities. No further control is required.

EQT0316 UTL08 - TK-6711 HCl Storage Tank

TPOR0147

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
Activity Number: PER20040012
Permit Number: 2265-V5
Air - Title V Regular Permit Renewal

EQT0316 UTL08 - TK-6711 HCl Storage Tank

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source emits Class III TAP (Hydrogen Chloride) only. MACT is not required.

EQT0317 UTL09 - Cogeneration Unit No. 1

- 47 [40 CFR 60.331(a)(2)] Nitrogen oxides <= % by volume at 15% oxygen and on a dry basis in gases discharged to the atmosphere. Use analytical methods and procedures that are accurate to within 5 percent and are approved by DEQ to determine the nitrogen content of the fuel being fired per 40 CFR 60.335(a). Subpart GG. [40 CFR 60.332(a)(2)]
- 48 [40 CFR 60.333(b)] Which Months: All Year Statistical Basis: None specified Fuel sulfur content <= 0.8 % by weight (8000 ppmw) for any fuel burned. Subpart GG. [40 CFR 60.333(b)]
- 49 [40 CFR 60.334(a)] Which Months: All Year Statistical Basis: None specified Fuel monitored by CMS continuously, except as specified in 40 CFR 60.334(b). Monitor fuel consumption. Subpart GG. [40 CFR 60.334(a)]
- 50 [40 CFR 60.334(a)] Which Months: All Year Statistical Basis: None specified Fuel recordkeeping by CMS continuously. Record fuel consumption. Subpart GG. [40 CFR 60.334(a)]
- 51 [40 CFR 60.334(a)] Ratio monitored by CMS continuously, except as specified in 40 CFR 60.334(b). Monitor the ratio of water or steam to fuel being fired in the turbine. Subpart GG. [40 CFR 60.334(a)]
- 52 [40 CFR 60.334(a)] Which Months: All Year Statistical Basis: None specified Ratio recordkeeping by CMS continuously. Record the ratio of water or steam to fuel being fired in the turbine. Subpart GG. [40 CFR 60.334(a)]
- 53 [40 CFR 60.334(b)] Monitor the steam or water to fuel ratio or other parameters that are continuously monitored as described in 40 CFR 60.334(a), (d) or (f) during the performance test required under 40 CFR 60.8, to establish acceptable values and ranges. Develop and keep on-site a parameter monitoring plan which explains the procedures used to document proper operation of the NOx emission controls. Include the parameter(s) monitored and the acceptable range(s) of the parameter(s) as well as the basis for designating the parameter(s) and acceptable range(s). Include any supplemental data such as engineering analyses, design specifications, manufacturer's recommendations and other relevant information in the monitoring plan. Subpart GG. [40 CFR 60.334(b)]
- 54 [40 CFR 60.334(h)(1)] Fuel sulfur content monitored by the regulation's specified method(s) at the regulation's specified frequency, except as specified in 40 CFR 60.334(h)(3). Monitor the total sulfur content of the fuel being fired in the turbine using total sulfur methods described in 40 CFR 60.335(b)(10). Subpart GG. [40 CFR 60.334(h)(1)]
- 55 [40 CFR 60.334(h)(2)] Which Months: All Year Statistical Basis: None specified Fuel nitrogen content monitored by the regulation's specified method(s) at the regulation's specified frequency. Monitor the nitrogen content of the fuel combusted in the turbine, if claiming an allowance for fuel bound nitrogen. Determine the nitrogen content of the fuel using methods described in 40 CFR 60.335(b)(9) or an approved alternative. Subpart GG. [40 CFR 60.334(h)(2)]
- 56 [40 CFR 60.334(j)(3)] Which Months: All Year Statistical Basis: None specified Submit quarterly excess emissions report. Due by the 30th day following the end of each calendar quarter. Report periods during which an exemption provided in 40 CFR 60.332(f) is in effect. Report the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated. Subpart GG. [40 CFR 60.334(j)(3)]
- 57 [40 CFR 60.334(j)(4)] Include each period during which an exemption provided in 40 CFR 60.332(k) is in effect in the report required in 40 CFR 60.7(c). For each period, report the type, reasons, and duration of the firing of the emergency fuel. Subpart GG. [40 CFR 60.334(j)(4)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
Activity Number: PER20040012
Permit Number: 2265-V5
Air - Title V Regular Permit Renewal

Eqr0317 UTL09 - Cogeneration Unit No. 1

- 58 [40 CFR 60.334(j)] Submit excess emissions reports and monitor downtime in accordance with 40 CFR 60.7(c). Report excess emissions for all periods of unit operation, including startup, shutdown and malfunction. Subpart GG. [40 CFR 60.334(j)] Determine compliance using the test methods and procedures specified in 40 CFR 60.335(a) through (c). Subpart GG.
- 59 [40 CFR 60.335] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
- 60 [40 CFR 60.] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire or equipment changes which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 61 [LAC 33:III.1101.B] Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 62 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: Six-minute average Nitrogen oxides <= 0.128 lb/MMBTU
- 63 [LAC 33:III.2201.E.1.c.i] Which Months: May-Sep Statistical Basis: Thirty-day rolling average
- 64 [LAC 33:III.2201.E.1.c] Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33:III.2201.E.1.c.i or the method in LAC 33:III.2201.E.1.c.ii, and in accordance with the Facility-Wide Averaging Plan approved on May 17, 2005.
- 65 [LAC 33:III.2201.H.3.b.v] Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
- 66 [LAC 33:III.2201.H.3.b.vi] Which Months: May-Sep Statistical Basis: None specified As an alternative to LAC 33:III.2201.H.3.b.ii-iv, operate the stationary gas turbine at the required steam-to-fuel ratio as determined during the initial compliance test, in accordance with the Facility-Wide Averaging Plan approved on May 17, 2005.
- 67 [LAC 33:III.2201.I.1] Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMs or PEMS
- 68 [LAC 33:III.2201.I.1] The Permittee shall demonstrate compliance with the permitted emission limits by performing stack tests for the gas turbines and duct burners using methods found in 40 CFR 60, Appendix A.
- 69 [LAC 33:III.2201.I.2] Submission test results: - Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.
- 70 [LAC 33:III.2201.I] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.
- 71 [LAC 33:III.501.C.6] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.
- 72 [LAC 33:III.509] The Permittee shall fire only natural gas in UTL09. [PSD.LA-523(M-1)]
- a. NO_x by Method 20 - Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines.
b. Carbon Monoxide by Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources.
- The permittee shall fire only natural gas in UTL09. [PSD.LA-523(M-1)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040012
 Permit Number: 2265-V5
 Air - Title V Regular Permit Renewal

EQT0317 UTL09 - Cogeneration Unit No. 1

73 [LAC 33:III.509]

The permittee shall operate the Cogeneration Unit No. 1, UTL09, in conformity with the specifications submitted to the Louisiana Air Quality Division as analyzed in the Louisiana Air Quality Division's document entitled "Preliminary Determination Summary" dated September 13, 1984 and is subject to the following emission limitations and other conditions specified. The maximum allowable emission rates** listed below represent the maximum emissions allowed from the Cogeneration Unit No. 1 (UTL09) per PSD-LA-523(M-1):

Emission Point ID:	Description	Max lbs/hr	PPMV	Tons/year	Opacity
UTL09	Cogeneration Unit No. 1	235	168	1,029*	5%

* Annual average emissions based on 235 lbs/hr at average ambient temperature of 68 degrees F.

** Emission numbers are based on actual stack test performed on December 10, 1985.

[PSD-LA-523(M-1)].

The permittee shall use steam injection technology to control NOx emissions from UTL09 to 168 ppm at 68 degrees F. Determined as BACT.

[PSD-LA-523(M-1)].

The worst-case maximum emission rate from UTL09 shall not exceed 253 lbs/hr (181 ppm) at 25 degrees for a total of 80 hour per year.

Records of worst-cases shall be maintained for at least two years and shall be made available to LDEQ personnel for inspection. [PSD-LA-523(M-1)].

EQT0318 UTL10 - Cogeneration Unit No. 2

76 [LAC 33:III.501.C.6]

Barium <= 0.001 lb/hr.
 Which Months: All Year Statistical Basis: Hourly average

77 [LAC 33:III.501.C.6]

Barium <= 0.002 lb/hr.
 Which Months: All Year Statistical Basis: Hourly maximum

78 [LAC 33:III.501.C.6]

Barium <= 0.01 tons/yr.
 Which Months: All Year Statistical Basis: Annual maximum

During start-ups of the Cogeneration Unit No. 2, the permittee shall not exceed 253 lbs/hr of NOx emissions.

79 [LAC 33:III.501.C.6]

Zinc <= 0.01 lb/hr.
 Which Months: All Year Statistical Basis: Hourly average

80 [LAC 33:III.501.C.6]

Zinc <= 0.01 lb/hr.
 Which Months: All Year Statistical Basis: Hourly maximum

81 [LAC 33:III.501.C.6]

Zinc <= 0.04 tons/yr.
 Which Months: All Year Statistical Basis: Hourly maximum

82 [LAC 33:III.501.C.6]

Zinc <= 0.04 tons/yr.
 Which Months: All Year Statistical Basis: Hourly average

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
Activity Number: PER20040012
Permit Number: 2265-V5
Air - Title V Regular Permit Renewal

EQT0318 UTI10 - Cogeneration Unit No. 2

83 [LAC 33:III.509]

Permittee shall demonstrate compliance with the permitted emission limits of PSD-LA-613 by performing stack tests for the gas turbine, UTI10(a), and the HRSG, UTI10(b), by using methods found in 40 CFR 60 Appendix A:

- a. NO_x by Method 20 - Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines.
- b. Carbon Monoxide by Method 10 - Determination of Carbon Monoxide emissions from Stationary Sources.

The gas turbine, UTI10(a), shall be tested without the HRSG, and then the gas turbine shall be retested with the duct burner. Emissions from the duct burner will be calculated from the differences between the tests. The test shall be performed initially for natural gas. The test for waste gas containing maximum amount of hydrogen (80%) shall be performed within 180 day of initial use of waste gas as fuel. [PSD-LA-613]. The permittee shall install, maintain, and calibrate a continuous emission monitoring system (CEMS) to provide a continuous record of NO_x in the exit gas from the selective catalytic reduction (SCR) unit, downstream of the heat recovery steam generator (HRSG), UTI10(b). [PSD-LA-613].

The permittee shall operate the Cogeneration Unit No. 2, UTI10, in conformity with the specifications submitted to the Louisiana Department of Environmental Quality (LDEQ) as analyzed by LDEQ's document entitled "Preliminary Determination Summary" dated December 12, 1997 and subject to the following emission limitations and other specified conditions. The maximum allowable operating and emissions rates listed below represent the maximum emissions allowed from the Cogeneration Unit No. 2 per PSD-LA-613:

Emission Point No.	Description	PM10	NO _x	CO
UTI10	Cogeneration Unit No. 2			
UTI10(a)	Gas Turbine (444 MM BTU/hr)			
UTI10(b)	HRSG(294 MM BTU/hr)			
	Natural Gas	ppmv	8	83.93
	lbs/hr	5.40	23.07	294.07
	tons/yr	18.09	101.03	
	Waste Gas containing 80% H ₂	ppmv	25*	83.93
	lbs/hr	5.40	80.00	294.07
	tons/yr	18.09	315.40	

* Emission limits for mixed gases with hydrogen content less than 80% shall be determined by interpolating between 8 and 25 ppmv. [PSD-LA-613].

EQT0319 UTI11 - Distillate Loading

86 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source emits Class I and/or Class II TAP less than the MER (facility wide). No further control is required.

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EQT0320 UTL12 - Hydrochloric Acid Tank TK-6731

87 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source emits Class III TAP (Hydrogen Chloride) only. MACT is not required.

EQT0321 UTL14 - Cooling Tower

88 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source emits Class III TAP (Chlorine) only. MACT is not required.

EQT0322 UTL19 - Stores No. 1 Gasoline Tank

89 [LAC 33:III.2103.A]

Equip with a submerged fill pipe.

90 [LAC 33:III.2103.H.3]

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

91 [LAC 33:III.2103.I]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of LAC 33:III.2103 is determined as MACT.

EQT0323 WWT01 - TK-5931 HCl Storage Tank

93 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source emits Class III TAP (Hydrogen Chloride) only. MACT is not required.

EQT0325 WWT03 - Thermal Oxidizer TO-330

94 [40 CFR 63.132(a)(1)]

Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1) or (e)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
 Comply with the applicable requirements for wastewater tanks, surface impoundments, containers, individual drain systems, and oil/water separators as specified in 40 CFR 63.133 through 137, except as specified in 40 CFR 63.132(a)(2)(i)(A) and (B) and 40 CFR 63.138(a)(3).

95 [40 CFR 63.132(a)(2)(i)]

Subpart G. [40 CFR 63.132(a)(2)(i)]
 Comply with the applicable requirements for control of Table 9 compounds as specified in 40 CFR 63.138. Alternatively, the owner or operator may elect to comply with the treatment provisions specified in 40 CFR 63.132(g). Subpart G. [40 CFR 63.132(a)(2)(ii)]
 Comply with the applicable monitoring and inspection requirements specified in 40 CFR 63.143. Subpart G. [40 CFR 63.132(a)(2)(iii)]

96 [40 CFR 63.132(a)(2)(ii)]

Comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146 and 40 CFR 63.147. Subpart G. [40 CFR 63.132(a)(2)(iv)]
 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream Subpart G. [40 CFR 63.132(c)]

99 [40 CFR 63.132(c)]

SPECIFIC REQUIREMENTS

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EQT0325 WWT03 - Thermal Oxidizer TO-330

100 [40 CFR 63.132(d)]

Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]

Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]

Operate and maintain a fixed roof and a closed-vent system that routes the organic hazardous air pollutants vapors vented from the wastewater tank to a control device. Subpart G. [40 CFR 63.133(a)(2)(i)]

Fixed roof: Maintain in accordance with the requirements specified in 40 CFR 63.143, except as provided in 40 CFR 63.133(b)(4). Subpart G. [40 CFR 63.133(b)(1)(i)]

Fixed roof: Maintain each opening in a closed position at all times that the wastewater tank contains a Group 1 wastewater stream or residual removed from a Group 1 wastewater stream except when it is necessary to use the opening for wastewater sampling, removal, or for equipment inspection, maintenance, or repair. Subpart G. [40 CFR 63.133(h)(1)(ii)]

Control device: Design, operate, and inspect in accordance with the requirements specified in 40 CFR 63.139. Subpart G. [40 CFR 63.133(b)(2)]

Closed-vent system: Design, operate, and inspect in accordance with the requirements specified in 40 CFR 63.148, except as provided in 40 CFR 63.133(b)(4). Subpart G. [40 CFR 63.133(b)(3)]

Equipment/operational data monitored by technically sound method once initially and once every six months. Monitor for improper work practices in accordance with 40 CFR 63.143, except as specified in 40 CFR 63.133(e). Subpart G. [40 CFR 63.133(l)]

Which Months: All Year Statistical Basis: None specified

Equipment/operational data monitored by technically sound method at the regulation's specified frequency. Inspect each wastewater tank for control equipment failures as defined in 40 CFR 63.133(g)(1) through (g)(1)(ix) according to the schedule in 40 CFR 63.133(g)(2) and (g)(3).

Subpart G. [40 CFR 63.133(g)]

Which Months: All Year Statistical Basis: None specified

When an improper work practice or a control equipment failure is identified, make first efforts at repair no later than 5 calendar days after identification. Complete repair within 45 calendar days after identification. Subpart G. [40 CFR 63.133(h)]

Ensure that the control device is operating whenever organic hazardous air pollutants emissions are vented to the control device. Subpart G. [40 CFR 63.139(b)]

Demonstrate that each control device or combination of control devices achieves the appropriate conditions specified in 40 CFR 63.139(c) by using one or more of the methods specified in 40 CFR 63.138(d)(1), (d)(2), or (d)(3), except as specified in (d)(4). Subpart G. [40 CFR 63.139(d)]

The owner or operator of a control device that is used to comply with the provisions of 40 CFR 63.139 shall monitor the control device in accordance with 40 CFR 63.143. Subpart G. [40 CFR 63.139(e)]

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EQT0325 WWT03 - Thermal Oxidizer TO-330

- Make a first attempt at repair as soon as practicable but no later than 5 calendar days after identification of gaps, cracks, tears, or holes in ductwork, piping, or connections to covers and control devices during an inspection. Complete repairs no later than 15 calendar days after identification or discovery of the defect. Subpart G. [40 CFR 63.139(f)]
 Comply with the inspection requirements in 40 CFR 63 Subpart G Table 11. Subpart G. [40 CFR 63.143(a)]
 Comply with the monitoring requirements specified in 40 CFR 63 Subpart G Table 13. Subpart G. [40 CFR 63.143(e)(1)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
 Vapor collection system or closed vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(1)(i)]
 Which Months: All Year Statistical Basis: None specified
 Vapor collection system or closed vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(1)(ii)]
 Which Months: All Year Statistical Basis: None specified
 Vapor collection system or closed vent system (ductwork): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(2)(i)]
 Which Months: All Year Statistical Basis: None specified
 Vapor collection system or closed vent system (ductwork): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(2)(ii)]
 Which Months: All Year Statistical Basis: None specified
 Vapor collection system or closed vent system (ductwork): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(2)(iii)]
 Which Months: All Year Statistical Basis: None specified
 Fixed roof, cover, or enclosure: Presence of a leak monitored by visual, audible, and/or olfactory once initially and once every six months as specified in 40 CFR 63.133 through 63.137. Subpart G. [40 CFR 63.148(b)(3)]
 Which Months: All Year Statistical Basis: None specified
 Repair leaks (as indicated by an instrument reading greater than 500 ppm above background or by visual inspections) as soon as practicable, except as provided in 40 CFR 63.148(e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). Subpart G. [40 CFR 63.148(d)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.148(j)(1) through (j)(6). Subpart G. [40 CFR 63.148(j)]
 Submit the information specified in 40 CFR 63.148(j)(1) through (j)(3) with the reports required by 40 CFR 63.182(b) of subpart H or 40 CFR 63.152(c). Subpart G. [40 CFR 63.148(j)]
 Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

SPECIFIC REQUIREMENTS

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Vapor collection system or closed vent system (bypass lines): Flow monitored by technically sound method continuously. Bypass indicated by monitoring bypass valve position signal on a continuous basis every 15 seconds. Install valve position monitor at the entrance to any bypass line. (Alternate monitoring method in lieu of 40 CFR 63.148(f)(1) and (f)(2)). Subpart G. [40 CFR 63.151(f)]

Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average
 Dinitrotoluene < 0.001 lb/hr The hourly average emission rate and annual emission rate are included in the Wastewater Flare and Thermal Oxidizer Emissions Cap, WWT CAP01.

Which Months: All Year Statistical Basis: Hourly maximum
 Minimum liquid scrubber effluent pH >= 3.7 s.u. (State-Only Requirement).

Which Months: All Year Statistical Basis: None specified
 Scrubber effluent pH monitored by pH instrument once every four hours (State-Only Requirement).

Which Months: All Year Statistical Basis: None specified
 Scrubber effluent pH recordkeeping by electronic or hard copy once every four hours (State-Only Requirement).

Scrubber recirculation Flow rate >= 31 gallons/min (State-Only Requirement).

Which Months: All Year Statistical Basis: Hourly average
 Scrubber recirculation: Flow rate monitored by flow rate monitoring device once every four hours (State-Only Requirement).

Which Months: All Year Statistical Basis: Hourly average
 Scrubber recirculation: Flow rate recordkeeping by electronic or hard copy once every four hours (State-Only Requirement).

Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division (State-Only Requirement).
 Total Organic HAP or Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, as used in calculating emissions.
 Which Months: All Year Statistical Basis: None specified
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the applicable wastewater provisions of 40 CFR 63 Subpart G is determined as MACT.

EQT0326 WWT04 - Bioreactor R-410A

Required mass removal (RMR): Organic HAP >= 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]
 Which Months: All Year Statistical Basis: None specified
 Dinitrotoluene < 0.001 lb/hr.

Which Months: All Year Statistical Basis: Hourly average
 140 [40 CFR 63.138(g)]
 141 [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040012
 Permit Number: 2265-V5
 Air - Title V Regular Permit Renewal

EQT0326 WWT04 - Bioreactor R-410A

- 142 [LAC 33.III.501.C.6] Dinitrotoluene < 0.01 tons/yr.
 Which Months: All Year Statistical Basis: Annual maximum
 Dinitrotoluene <= 0.001 lb/hr.
 Which Months: All Year Statistical Basis: Hourly maximum
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with requirements in 40 CFR 63 Subpart G is considered as MACT.

EQT0327 WWT05 - Sludge Dryer Contactor

- 145 [40 CFR 63.132(a)(3)] Comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 40 CFR 63.147(b)(8). [40 CFR 63.132(a)(3)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Source emits Class III TAP only. MACT is not required.

EQT0328 WWT07 - Bioreactor R-410B

- 147 [40 CFR 63.138(g)] Required mass removal (RMR): Organic HAP \geq 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]
 Which Months: All Year Statistical Basis: None specified
 Dinitrotoluene < 0.001 lb/hr.
 Which Months: All Year Statistical Basis: Hourly average
 Dinitrotoluene < 0.001 lb/hr.
 Which Months: All Year Statistical Basis: Hourly maximum
 Dinitrotoluene < 0.01 tons/yr.
 Which Months: All Year Statistical Basis: Annual maximum
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with requirements in 40 CFR 63 Subpart G is considered as MACT.

EQT0329 WWT08 - Bioreactor R-460A

- 152 [40 CFR 63.138(g)] Required mass removal (RMR): Organic HAP \geq 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]
 Which Months: All Year Statistical Basis: None specified
 Dinitrotoluene < 0.001 lb/hr.
 Which Months: All Year Statistical Basis: Hourly average
 Dinitrotoluene < 0.01 tons/yr.
 Which Months: All Year Statistical Basis: Annual maximum
 Dinitrotoluene <= 0.001 lb/hr.
 Which Months: All Year Statistical Basis: Hourly maximum
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with requirements in 40 CFR 63 Subpart G is considered as MACT.

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040012
 Permit Number: 2265-V5
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EQT0330 WWT09 - Bioreactor R-460B

- Required mass removal (RMR): Organic HAP ≥ 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]
- Which Months: All Year Statistical Basis: None specified
- Dinitrotoluene < 0.001 lb/hr.
- Which Months: All Year Statistical Basis: Hourly average
- Dinitrotoluene < 0.001 lb/hr.
- Which Months: All Year Statistical Basis: Hourly maximum
- Dinitrotoluene < 0.01 tons/yr.
- Which Months: All Year Statistical Basis: Annual maximum
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- Compliance with requirements in 40 CFR 63 Subpart G is considered as MACT.

EQT0331 WWT10 - TK-106BX HCl Storage Tank

- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- Source emits Class III TAP (Hydrogen Chloride) only. MACT is not required.

EQT0338 WWT17 - WWTP Enclosed Flare

- Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
- Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(c)]
- Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]
- Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by Subpart G. [40 CFR 63.132(f)])
- Operate and maintain a fixed roof and a closed-vent system that routes the organic hazardous air pollutants vapors vented from the wastewater tank to a control device. Subpart G. [40 CFR 63.133(a)(2)(i)]
- Fixed roof. Maintain in accordance with the requirements specified in 40 CFR 63.148, except as provided in 40 CFR 63.133(b)(4). Subpart G. [40 CFR 63.133(b)(1)(i)]

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
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EQT0338 WWTP Enclosed Flare

- 169 [40 CFR 63.133(b)(1)(ii)] Fixed roof: Maintain each opening in a closed position at all times that the wastewater tank contains a Group 1 wastewater stream or residual removed from a Group 1 wastewater stream except when it is necessary to use the opening for wastewater sampling, removal, or for equipment inspection, maintenance, or repair. Subpart G. [40 CFR 63.133(b)(1)(ii)]
- 170 [40 CFR 63.133(b)(2)] Control device: Design, operate and inspect in accordance with the requirements of 40 CFR 63.139. Subpart G. [40 CFR 63.133(b)(2)]
- 171 [40 CFR 63.133(b)(3)] Closed-vent system: Design, operate and inspect in accordance with the requirements of 40 CFR 63.148, except as provided in 40 CFR 63.133(b)(4). Subpart G. [40 CFR 63.133(b)(3)]
- 172 [40 CFR 63.133(f)] Equipment/operational data monitored by technically sound method once initially and once every six months. Monitor for improper work practices in accordance with 40 CFR 63.143, except as specified in 40 CFR 63.133(e). Subpart G. [40 CFR 63.133(f)]
- 173 [40 CFR 63.133(g)] Which Months: All Year Statistical Basis: None specified Equipment/operational data monitored by technically sound method at the regulation's specified frequency. Inspect each wastewater tank for control equipment failures as defined in 40 CFR 63.133(g)(1) through (g)(1)(ix) according to the schedule in 40 CFR 63.133(g)(2) and (g)(3).
- 174 [40 CFR 63.133(h)] Subpart G. [40 CFR 63.133(g)]
- 175 [40 CFR 63.138(g)] Which Months: All Year Statistical Basis: None specified When an improper work practice or a control equipment failure is identified, make first efforts at repair no later than 5 calendar days after identification. Complete repair within 45 calendar days after identification. Subpart G. [40 CFR 63.133(h)]
- 176 [40 CFR 63.138(i)(3)] Required mass removal (RMR): Organic HAP ≥ 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]
- 177 [40 CFR 63.138(j)] Which Months: All Year Statistical Basis: None specified Identify wastewater streams in the Notification of Compliance Status required by 40 CFR 63.152(b). Subpart G. [40 CFR 63.138(i)(3)]
- 178 [40 CFR 63.139(b)] Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]
- 179 [40 CFR 63.139(c)(1)(i)] Ensure that the control device is operating whenever organic hazardous air pollutants emissions are vented to the control device. Subpart G. [40 CFR 63.139(b)]
- 180 [40 CFR 63.139(c)(3)] Total Organic HAP or Total Organic Compounds (less methane and ethane) $\geq 95\%$ reduction by weight. Subpart G. [40 CFR 63.139(c)(1)(i)]
- 181 [40 CFR 63.139(d)] Which Months: All Year Statistical Basis: None specified Comply with the requirements of 40 CFR 63.11(b). Subpart G. [40 CFR 63.139(c)(3)]
- 182 [40 CFR 63.139(f)] Demonstrate that each control device or combination of control devices achieves the appropriate conditions specified in 40 CFR 63.139(c) by using one or more of the methods specified in 40 CFR 63.138(d)(1), (d)(2), or (d)(3), except as specified in (d)(4). Subpart G. [40 CFR 63.139(d)]
- 183 [40 CFR 63.143(a)] Make a first attempt at repair as soon as practicable but no later than 5 calendar days after identification of gaps, cracks, tears, or holes in ductwork, piping, or connections to covers and control devices during an inspection. Complete repairs no later than 15 calendar days after identification or discovery of the defect. Subpart G. [40 CFR 63.139(f)]
- 184 [40 CFR 63.143(b)] Comply with the inspection requirements in 40 CFR 63 Subpart G Table 11. Subpart G. [40 CFR 63.143(a)]
- 185 [40 CFR 63.143(e)(1)] Comply with the monitoring requirements specified in 40 CFR 63 Subpart G Table 12. Subpart G. [40 CFR 63.143(b)]
- 186 [40 CFR 63.143(e)(2)] Comply with the monitoring requirements specified in 40 CFR 63 Subpart G Table 13. Subpart G. [40 CFR 63.143(e)(1)]
- 187 [40 CFR 63.143(e)(2)] Organic HAP monitored by organic monitoring device continuously. Equip the organic monitoring device with a continuous recorder and install at the outlet of the control device. Subpart G. [40 CFR 63.143(e)(2)]
- 188 [40 CFR 63.143(f)] Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

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EQT0338 WWT17 - WWTP Enclosed Flare

- Demonstrate compliance with 40 CFR 63.138 by conducting either a design evaluation or performance test as specified in 40 CFR 63.145(a) through (j). Subpart G.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
- Vapor collection system or closed vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- Vapor collection system or closed vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Vapor collection system or closed vent system (ductwork): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(2)(i)]
- Which Months: All Year Statistical Basis: None specified
- Vapor collection system or closed vent system (ductwork): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Vapor collection system or closed vent system (ductwork): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(2)(iii)]
- Which Months: All Year Statistical Basis: None specified
- Fixed roof, cover, or enclosure: Presence of a leak monitored by visual, audible, and/or olfactory once initially and once every six months as specified in 40 CFR 63.133 through 63.137. Subpart G. [40 CFR 63.148(b)(3)]
- Which Months: All Year Statistical Basis: None specified
- Repair leaks (as indicated by an instrument reading greater than 500 ppm above background or by visual inspections) as soon as practicable, except as provided in 40 CFR 63.148(e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). Subpart G. [40 CFR 63.148(d)]
- Vapor collection system or closed vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes. Install the flow indicator at the entrance to any bypass line. Subpart G. [40 CFR 63.148(f)(1)]
- Which Months: All Year Statistical Basis: None specified
- Vapor collection system or closed vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.148(f)(2)]
- Which Months: All Year Statistical Basis: None specified
- Vapor collection system or closed vent system (bypass lines): Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. Subpart G. [40 CFR 63.148(f)(2)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.148(i)(1) through (i)(6). Subpart G. [40 CFR 63.148(i)]
- Submit the information specified in 40 CFR 63.148(j)(1) through (j)(3) with the reports required by 40 CFR 63.182(b) of subpart H or 40 CFR 63.152(c). Subpart G. [40 CFR 63.148(j)]

TPORD147

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
Activity Number: PER20040012
Permit Number: 2265-V5
Air - Title V Regular Permit Renewal

EQT0338 WWT17 - WWTP Enclosed Flare

Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.

Which Months: All Year Statistical Basis: None specified

Submit notification: Due to SPOC as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours. Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

Dinitrotoluene < 0.001 lb/hr The hourly average emission rate and annual emission rate are included in the Wastewater Enclosed Flare and Thermal Oxidizer Emissions Cap, WWT CAP01.

Which Months: All Year Statistical Basis: Hourly maximum

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the applicable wastewater provisions of 40 CFR 63 Subpart G (HON) is determined as MACT.

EQT0339 WWT18 - Sample Returns Tank

Operate and maintain a fixed roof. Subpart G. [40 CFR 63.133(a)(1)] Equipment/operational data monitored by technically sound method once initially and once every six months. Monitor for improper work practices in accordance with 40 CFR 63.143, except as specified in 40 CFR 63.133(e). Subpart G. [40 CFR 63.133(f)]

Which Months: All Year Statistical Basis: None specified

Equipment/operational data monitored by technically sound method at the regulation's specified frequency. Inspect each wastewater tank for control equipment failures as defined in 40 CFR 63.133(g)(1) through (g)(1)(ix) according to the schedule in 40 CFR 63.133(g)(2) and (g)(3). Subpart G. [40 CFR 63.133(g)]

Which Months: All Year Statistical Basis: None specified

When an improper work practice or a control equipment failure is identified, make first efforts at repair no later than 5 calendar days after identification. Complete repair within 45 calendar days after identification. Subpart G. [40 CFR 63.133(h)] Comply with the inspection requirements in 40 CFR 63 Subpart G Table 11. Subpart G. [40 CFR 63.143(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.

Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source emits Class I and/or Class II TAP less than the MER (facility wide). No further control is required.

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER200040012
 Permit Number: 2265-V5
 Air - Title V Regular Permit Renewal

EQT0340 WWT19 - Bioreactor R-480A

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.

Required mass removal (RMR): Organic HAP ≥ 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]

Which Months: All Year Statistical Basis: None specified
 Dinitrotoluene < 0.001 lb/hr.
 Which Months: All Year Statistical Basis: Hourly average
 Dinitrotoluene < 0.01 tons/yr.
 Which Months: All Year Statistical Basis: Annual maximum
 Dinitrotoluene ≤ 0.001 lb/hr.

Which Months: All Year Statistical Basis: Hourly maximum
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with requirements in 40 CFR 63 Subpart G is considered as MACT.

EQT0341 WWT20 - Bioreactor R-480B

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.

Required mass removal (RMR): Organic HAP ≥ 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]

Which Months: All Year Statistical Basis: None specified
 Dinitrotoluene < 0.001 lb/hr.
 Which Months: All Year Statistical Basis: Hourly average
 Dinitrotoluene < 0.001 lb/hr.
 Which Months: All Year Statistical Basis: Hourly maximum
 Dinitrotoluene < 0.01 tons/yr.

Which Months: All Year Statistical Basis: Annual maximum
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with requirements in 40 CFR 63 Subpart G is considered as MACT.

EQT0360 WWT03(a) - Offspec Storage Tank TK-210

Operate and maintain a fixed roof and a closed-vent system that routes the organic hazardous air pollutants vapors vented from the wastewater tank to a control device. Subpart G. [40 CFR 63.133(a)(2)(i)]

Fixed roof: Maintain in accordance with the requirements specified in 40 CFR 63.148, except as provided in 40 CFR 63.133(b)(4). Subpart G.
 [40 CFR 63.133(b)(1)(i)]
 Fixed roof: Maintain each opening in a closed position at all times that the wastewater tank contains a Group 1 wastewater stream or residual removed from a Group 1 wastewater stream except when it is necessary to use the opening for wastewater sampling, removal, or for equipment inspection, maintenance, or repair. Subpart G. [40 CFR 63.133(b)(1)(ii)]

TPCR0147

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040012
 Permit Number: 2265-V5
 Air - Title V Regular Permit Renewal

EQT0360 WWT03(a) - Offspec Storage Tank TK-210

- Control device: Design, operate, and inspect in accordance with the requirements of 40 CFR 63.139. Subpart G. [40 CFR 63.133(b)(2)]
 Closed-vent system: Except as provided in 40 CFR 63.133(b)(4), inspect in accordance with the requirements of 40 CFR 63.148. Subpart G. [40 CFR 63.133(b)(3)]
- Equipment/operational data monitored by technically sound method once initially and once every six months. Monitor for improper work practices in accordance with 40 CFR 63.143, except as specified in 40 CFR 63.133(e). Subpart G. [40 CFR 63.133(f)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data monitored by technically sound method at the regulation's specified frequency. Inspect each wastewater tank for control equipment failures as defined in 40 CFR 63.133(g)(1)(i) through (g)(1)(ix) according to the schedule in 40 CFR 63.133(g)(2) and (g)(3). Subpart G. [40 CFR 63.133(g)]
- Which Months: All Year Statistical Basis: None specified
- When an improper work practice or a control equipment failure is identified, make first efforts at repair no later than 5 calendar days after identification. Complete repair within 45 calendar days after identification. Subpart G. [40 CFR 63.133(h)]
- Comply with the inspection requirements in 40 CFR 63 Subpart G Table 11. Subpart G. [40 CFR 63.143(a)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
- Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with requirements in 40 CFR 63 Subpart G is considered as MACT.

EQT0362 WWT03(c) - Inlet Surge Tank/Wastewater Stripper TK-225

- Operate and maintain a fixed roof and a closed-vent system that routes the organic hazardous air pollutants vapors vented from the wastewater tank to a control device. Subpart G. [40 CFR 63.133(a)(2)(i)]
- Fixed roof: Maintain in accordance with the requirements specified in 40 CFR 63.148, except as provided in 40 CFR 63.133(b)(4). Subpart G. [40 CFR 63.133(b)(1)(i)]
- Fixed roof: Maintain each opening in a closed position at all times that the wastewater tank contains a Group 1 wastewater stream or residual removed from a Group 1 wastewater stream except when it is necessary to use the opening for wastewater sampling, removal, or for equipment inspection, maintenance, or repair. Subpart G. [40 CFR 63.133(b)(1)(ii)]
- Control device: Design, operate, and inspect in accordance with the requirements of 40 CFR 63.139. Subpart G. [40 CFR 63.133(b)(2)]
- Closed-vent system: Except as provided in 40 CFR 63.133(b)(4), inspect in accordance with the requirements of 40 CFR 63.148. Subpart G. [40 CFR 63.133(b)(3)]
- Equipment/operational data monitored by technically sound method once initially and once every six months. Monitor for improper work practices in accordance with 40 CFR 63.143, except as specified in 40 CFR 63.133(e). Subpart G. [40 CFR 63.133(f)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
Activity Number: PER20040012
Permit Number: 2265-V5
Air - Title V Regular Permit Renewal

EQT0362 WWT03(c) - Inlet Surge Tank/Wastewater Stripper TK-225

Equipment/operational data monitored by technically sound method at the regulation's specified frequency. Inspect each wastewater tank for control equipment failures as defined in 40 CFR 63.133(g)(1)(i) through (g)(1)(ix) according to the schedule in 40 CFR 63.133(g)(2) and (g)(3).

- Subpart G. [40 CFR 63.133(g)]
- Which Months: All Year Statistical Basis: None specified
- When an improper work practice or a control equipment failure is identified, make first efforts at repair no later than 5 calendar days after identification. Complete repair within 45 calendar days after identification. Subpart G. [40 CFR 63.133(h)]
- Comply with the inspection requirements in 40 CFR 63 Subpart G Table 11. Subpart G. [40 CFR 63.143(a)]
- Comply with the inspection requirements in 40 CFR 63 Subpart G Table 11. Subpart G. [40 CFR 63.143(a)]
- Maintain records specified in 40 CFR 63.149(b)
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.149(b)
- CFR 63.147(a) through (f), as applicable. Subpart G.
- Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b)
- through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- Compliance with requirements in 40 CFR 63 Subpart G is considered as MACT.

EQT0363 WWT03(d) - Equalization Tank TK-401

Operate and maintain a fixed roof and a closed-vent system that routes the organic hazardous air pollutants vapors vented from the wastewater tank to a control device. Subpart G. [40 CFR 63.133(a)(2)(i)]

Fixed roof: Maintain in accordance with the requirements specified in 40 CFR 63.148, except as provided in 40 CFR 63.133(b)(4). Subpart G. [40 CFR 63.133(b)(1)(i)]

Fixed roof: Maintain each opening in a closed position at all times that the wastewater tank contains a Group 1 wastewater stream or residual removed from a Group 1 wastewater stream except when it is necessary to use the opening for wastewater sampling, removal, or for equipment inspection, maintenance, or repair. Subpart G. [40 CFR 63.133(b)(1)(ii)]

Control device: Design, operate, and inspect in accordance with the requirements of 40 CFR 63.139. Subpart G. [40 CFR 63.133(b)(2)]

Closed-vent system: Except as provided in 40 CFR 63.133(b)(4), inspect in accordance with the requirements of 40 CFR 63.148. Subpart G. [40 CFR 63.133(b)(3)]

Equipment/operational data monitored by technically sound method once initially and once every six months. Monitor for improper work practices in accordance with 40 CFR 63.143, except as specified in 40 CFR 63.133(e). Subpart G. [40 CFR 63.133(f)]

Which Months: All Year Statistical Basis: None specified

Equipment/operational data monitored by technically sound method at the regulation's specified frequency. Inspect each wastewater tank for control equipment failures as defined in 40 CFR 63.133(g)(1)(i) through (g)(1)(ix) according to the schedule in 40 CFR 63.133(g)(2) and (g)(3).

Subpart G. [40 CFR 63.133(g)]

Which Months: All Year Statistical Basis: None specified

When an improper work practice or a control equipment failure is identified, make first efforts at repair no later than 5 calendar days after identification. Complete repair within 45 calendar days after identification. Subpart G. [40 CFR 63.133(h)]

Comply with the inspection requirements in 40 CFR 63 Subpart G Table 11. Subpart G. [40 CFR 63.143(a)]

Comply with the inspection requirements in 40 CFR 63 Subpart G Table 11. Subpart G. [40 CFR 63.143(a)]

TPOR0147

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
Activity Number: PER20040012
Permit Number: 2265-V5
Air - Title V Regular Permit Renewal

EQT0363 WWT03(d) - Equalization Tank TK-401

- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (l), as applicable. Subpart G.
- Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with requirements in 40 CFR 63 Subpart G is considered as MACT.

EQT0364 WWT03(e) - BOD Booster Tank TK-108

- Operate and maintain a fixed roof and a closed-vent system that routes the organic hazardous air pollutants vapors vented from the wastewater tank to a control device. Subpart G. [40 CFR 63.133(a)(2)(i)]
- Fixed roof: Maintain in accordance with the requirements specified in 40 CFR 63.148, except as provided in 40 CFR 63.133(b)(4). Subpart G. [40 CFR 63.133(b)(1)(i)]
- Fixed roof: Maintain each opening in a closed position at all times that the wastewater tank contains a Group 1 wastewater stream or residual removed from a Group 1 wastewater stream except when it is necessary to use the opening for wastewater sampling, removal, or for equipment inspection, maintenance, or repair. Subpart G. [40 CFR 63.133(b)(1)(ii)]
- Control device: Design, operate, and inspect in accordance with the requirements of 40 CFR 63.139. Subpart G. [40 CFR 63.133(b)(2)]
- Closed-vent system: Except as provided in 40 CFR 63.133(b)(4), inspect in accordance with the requirements of 40 CFR 63.148. Subpart G. [40 CFR 63.133(b)(3)]
- Equipment/operational data monitored by technically sound method once initially and once every six months. Monitor for improper work practices in accordance with 40 CFR 63.143, except as specified in 40 CFR 63.133(e). Subpart G. [40 CFR 63.133(f)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data monitored by technically sound method at the regulation's specified frequency. Inspect each wastewater tank for control equipment failures as defined in 40 CFR 63.133(g)(1)(i) through (g)(1)(ix) according to the schedule in 40 CFR 63.133(g)(2) and (g)(3).
- Subpart G. [40 CFR 63.133(g)]
- Which Months: All Year Statistical Basis: None specified
- When an improper work practice or a control equipment failure is identified, make first efforts at repair no later than 5 calendar days after identification. Complete repair within 45 calendar days after identification. Subpart G. [40 CFR 63.133(h)]
- Comply with the inspection requirements in 40 CFR 63 Subpart G Table 11. Subpart G. [40 CFR 63.143(a)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (l), as applicable. Subpart G.
- Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with requirements in 40 CFR 63 Subpart G is considered as MACT.

EQT0365 WWT03(f) - BOD Booster Tank TK-109

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
Activity Number: PER20040012
Permit Number: 2265-V5
Air - Title V Regular Permit Renewal

EQT0365 WWT03(f) - BOD Booster Tank TK-109

- Operate and maintain a fixed roof and a closed-vent system that routes the organic hazardous air pollutants vapors vented from the wastewater tank to a control device. Subpart G. [40 CFR 63.133(a)(2)(i)]
- 276 [40 CFR 63.133(b)(1)(ii)] Fixed roof. Maintain in accordance with the requirements specified in 40 CFR 63.148, except as provided in 40 CFR 63.133(b)(4). Subpart G. [40 CFR 63.133(b)(1)(ii)]
- 277 [40 CFR 63.133(b)(1)(ii)] Fixed roof. Maintain each opening in a closed position at all times that the wastewater tank contains a Group 1 wastewater stream or residual removed from a Group 1 wastewater stream except when it is necessary to use the opening for wastewater sampling, removal, or for equipment inspection, maintenance, or repair. Subpart G. [40 CFR 63.133(b)(1)(ii)]
- 278 [40 CFR 63.133(b)(1)(ii)] Control device: Design, operate, and inspect in accordance with the requirements of 40 CFR 63.139. Subpart G. [40 CFR 63.133(b)(2)]
- 279 [40 CFR 63.133(b)(2)] Closed-vent system: Except as provided in 40 CFR 63.133(b)(4), inspect in accordance with the requirements of 40 CFR 63.148. Subpart G. [40 CFR 63.133(b)(3)]
- 280 [40 CFR 63.133(b)(3)] Equipment/operational data monitored by technically sound method once initially and once every six months. Monitor for improper work practices in accordance with 40 CFR 63.143, except as specified in 40 CFR 63.133(e). Subpart G. [40 CFR 63.133(f)]
- 281 [40 CFR 63.133(f)] Which Months: All Year Statistical Basis: None specified Equipment/operational data monitored by technically sound method at the regulation's specified frequency. Inspect each wastewater tank for control equipment failures as defined in 40 CFR 63.133(g)(1)(i) through (g)(1)(ix) according to the schedule in 40 CFR 63.133(g)(2) and (g)(3).
- 282 [40 CFR 63.133(g)] Subpart G. [40 CFR 63.133(g)]
- 283 [40 CFR 63.133(h)] Which Months: All Year Statistical Basis: None specified When an improper work practice or a control equipment failure is identified, make first efforts at repair no later than 5 calendar days after identification. Subpart G. [40 CFR 63.133(h)]
- 284 [40 CFR 63.143(a)] Comply with the inspection requirements in 40 CFR 63 Subpart G Table 11. Subpart G. [40 CFR 63.143(a)]
- 285 [40 CFR 63.147] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G. [40 CFR 63.147]
- 286 [40 CFR 63.149(a)] Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(a) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]
- 287 [LAC 33.III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with requirements in 40 CFR 63 Subpart G is considered as MACT.

EQT0646 UTL10(a) - Cogeneration Unit No. 2 Gas Turbine

- Nitrogen oxides <= 0.0187 % by volume at 15% oxygen and on a dry basis in gases discharged to the atmosphere. Use analytical methods and procedures that are accurate to within 5 percent and are approved by DEQ to determine the nitrogen content of the fuel being fired per 40 CFR 60.335(a). Subpart GG. [40 CFR 60.332(e)(2)]
- 288 [40 CFR 60.332(a)(2)] Which Months: All Year Statistical Basis: None specified Fuel sulfur content <= 0.8 % by weight (8000 ppmw) for any fuel burned. Subpart GG. [40 CFR 60.333(b)]
- 289 [40 CFR 60.333(b)] Which Months: All Year Statistical Basis: None specified Oxygen and Nitrogen oxides monitored by continuous emission monitor (CEM) continuously as specified in 40 CFR 60.334(b)(1) through (b)(3). Subpart GG. [40 CFR 60.334(b)]
- 290 [40 CFR 60.334(b)] Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
Activity Number: PER20040012
Permit Number: 2265-V5
Air - Title V Regular Permit Renewal

EQT0646 UTL10(a) - Cogeneration Unit No. 2 Gas Turbine

- 291 [40 CFR 60.334(b)] Oxygen and Nitrogen oxides recordkeeping by continuous emission monitor (CEM) continuously as specified in 40 CFR 60.334(b)(1) through (b)(3). Subpart GG. [40 CFR 60.334(b)]
- Fuel sulfur content monitored by the regulation's specified method(s) at the regulation's specified frequency, except as specified in 40 CFR 60.334(h)(3). Monitor the total sulfur content of the fuel being fired in the turbine using total sulfur methods described in 40 CFR 60.334(h)(3).
- 292 [40 CFR 60.334(h)(1)]
- 293 [40 CFR 60.334(h)(2)] Which Months: All Year Statistical Basis: None specified Fuel nitrogen content monitored by the regulation's specified method(s) at the regulation's specified frequency. Monitor the nitrogen content of the fuel combusted in the turbine, if claiming an allowance for fuel bound nitrogen. Determine the nitrogen content of the fuel using methods described in 40 CFR 60.335(b)(9) or an approved alternative. Subpart GG. [40 CFR 60.334(h)(2)]
- 294 [40 CFR 60.334(h)(3)] Which Months: All Year Statistical Basis: None specified Submit quarterly excess emissions report: Due by the 30th day following the end of each calendar quarter. Report periods during which an exemption provided in 40 CFR 60.332(f) is in effect. Report the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated. Subpart GG. [40 CFR 60.334(h)(3)]
- 295 [40 CFR 60.334(j)(4)] Include each period during which an exemption provided in 40 CFR 60.332(k) is in effect in the report required in 40 CFR 60.7(c). For each period, report the type, reasons, and duration of the firing of the emergency fuel. Subpart GG. [40 CFR 60.334(j)(4)]
- 296 [40 CFR 60.334(j)] Submit excess emissions reports and monitor downtime in accordance with 40 CFR 60.7(c). Report excess emissions for all periods of unit operation, including startup, shutdown and malfunction. Subpart GG. [40 CFR 60.334(j)]
- 297 [40 CFR 60.335] Determine compliance using the test methods and procedures specified in 40 CFR 60.335(a) through (c). Subpart GG.
- 298 [LAC 33.III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire or equipment changes which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 299 [LAC 33.III.1311.C] Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 300 [LAC 33.III.509] Which Months: All Year Statistical Basis: Six-minute average The gas turbine, UTL10(a), shall comply with all applicable provisions of New Source Performance Standards (NSPS) 40 CFR 60 Subpart GG - Standards of Performance for Stationary Gas Turbines. [PSD-LA-613].
- 301 [LAC 33.III.509] The permittee shall use steam injection technology and selective catalyst reduction (SCR) to control NOx from the gas turbine, UTL10(a), to less than or equal to 25 ppmv for waste gas containing 80% hydrogen and 8 ppmv for natural gas (except during startup or shutdown). Determined as BACT. [PSD-LA-613].

EQT0647 UTL10(b) - Cogeneration Unit No. 2 Heat Recovery Steam Generator

- 302 [40 CFR 60.44b] Nitrogen oxides <= 0.20 lb/MMBTU (43 ng/J) heat input (expressed as NO₂), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.
- 303 [40 CFR 60.48b(b)(1)] Which Months: All Year Statistical Basis: Thirty-day rolling average Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d), except as provided in 40 CFR 60.48(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]
- Which Months: All Year Statistical Basis: Hourly average

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
 Activity Number: PER20040012
 Permit Number: 2265-V5
 Air - Title V Regular Permit Renewal

EQT0647 UTL10(b) - Cogeneration Unit No. 2 Heat Recovery Steam Generator

304 [40 CFR 60.48b(b)(1)]
 305 [40 CFR 60.48b(c)]

Nitrogen oxides recordkeeping by CMS continuously, except as provided in 40 CFR 60.48(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)] Operate NOx continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]

306 [40 CFR 60.48b(e)]

Follow the procedures under 40 CFR 60.13 and 40 CFR 60.48b(e)(1) through (e)(3) for installation, evaluation, and operation of the NOx continuous monitoring system. Subpart Db. [40 CFR 60.48b(e)]

When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems. 40 CFR 60, Appendix A, Method 7, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(f)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency, except as provided in 40 CFR 60.49b(p). Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)] Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(g)] Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire or equipment changes which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

The heat recovery steam generator (HRSG), UTL10(b), shall comply with all applicable provisions of NSPS 40 CFR 60 Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. [PSD-LA-613]. The permittee shall use low NOx burners and selective catalytic reduction (SCR) to limit NOx on the HRSG, UTL10(b), to less than or equal to 25 ppmv for waste gas containing 80% hydrogen and 8 ppmv for natural gas. Determined as BACT. [PSD-LA-613]. The selective catalytic reduction (SCR) unit shall be operated at maximum removal efficiency determined by the performance test. [PSD-LA-613].

FUG0017 UTL17 - Utilities Plant Fugitives

316 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source emits Class III TAP (Ammonia) only. MACT is not required.

GRP0008 WWT CAP01 - Wastewater Enclosed Flare & Thermal Oxidizer Emissions CAP

Group Members: EQT0325 EQT0338

SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp - Geismar Site
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GRP0008 WWT CAP01 - Wastewater Enclosed Flare & Thermal Oxidizer Emissions CAP

- Dinitrotoluene < 0.001 lb/hr Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap.
 Which Months: All Year Statistical Basis: Hourly average
- Dinitrotoluene < 0.01 tons/yr Wastewater Enclosed Flare & Thermal Oxidizer Emissions Cap.
 Which Months: All Year Statistical Basis: Annual maximum
- Submit report: Due annually, by the 31st of March. Report the total heat input of WWT17 and VVWT03 for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
- Total heat input <= 50,375 MM BTU/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the total annual heat input from the Thermal Oxidizer (WWT03) and WWTP Enclosed Flare (WWT17) exceeds the maximum listed in this specific condition for any twelve consecutive month period.
- 317 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
 heat input monitored by technically sound method continuously.
- 318 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
 heat input recordkeeping by electronic or hard copy monthly. Keep records of the total heat input of WWT17, Enclosed Wastewater Flare, and WWWT03, Thermal Oxidizer, each month, as well as the total heat input of WWT17 and WWWT03 for the last twelve months. Make records available for inspection by DEQ personnel.
- 319 [LAC 33:III.501.C.6]
- 320 [LAC 33:III.501.C.6]
- 321 [LAC 33:III.501.C.6]
- 322 [LAC 33:III.501.C.6]
- 323 [LAC 33:III.501.C.6]
- 324 [LAC 33:III.501.C.6]
- 325 [LAC 33:III.501.C.6]
- 326 [LAC 33:III.501.C.6]

GRP0076 WWT CAP02 - Diesel Firewater Pumps Emissions Cap

Group Members: EQT0332 EQT0333 EQT0641 EQT0642 EQT0643 EQT0644

- Fuel rate (liquid/solid) & operating hours monitored by technically sound method upon occurrence of event.
 Which Months: All Year Statistical Basis: None specified
- Fuel rate (liquid/solid) & operating hours recordkeeping by electronic or hard copy monthly. Keep records of the total fuel usage and operating hours each month, as well as the total fuel usage and operating hours for the last twelve months. Make records available for inspection by DEQ personnel.
- Submit report: Due annually, by the 31st of March. Report the total heat input for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
- Total heat input <= 810 MM BTU/yr, as determined by engineering calculations from total fuel usage and total hours of operation for emission sources in this emissions cap. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the total heat input for Diesel Firewater Pumps 1-A, 1-B, 1-C, 2-A, 2-B, and 2-C exceeds the maximum listed in this specific condition for any twelve consecutive month period.
- Which Months: All Year Statistical Basis: 12-month rolling sum

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- 327 [40 CFR 60.1]
 328 [40 CFR 61.145(b)(1)]

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies.
 Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]

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- Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.
- Comply with the requirements of 40 CFR 61.342(c) through (h) no later than 90 days following the effective date, unless a waiver of compliance has been obtained under 40 CFR 61.11, or by the initial startup for a new source with an initial startup after the effective date. Subpart FF. [40 CFR 61.342(b)]
- Waste streams containing benzene: Remove or destroy the benzene contained in the waste using a treatment process or wastewater treatment system that complies with the standards specified in 40 CFR 61.348. Subpart FF. [40 CFR 61.342(c)(1)(i)]
- Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulations specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- Submit report: Due within 90 days after January 7, 1993. Submit a report that summarizes the regulatory status of each waste stream subject to 40 CFR 61.355(c) to contain benzene. Include the information specified in 40 CFR 61.342 and is determined by the procedures specified in 40 CFR 61.357(a)(1) through (a)(4). If there is no benzene onsite in wastes, products, by-products, or intermediates, submit an initial report that is a statement to this effect. Subpart FF. [40 CFR 61.357(a)]
- Submit report: Due by the date of initial startup. Submit a certification that the equipment necessary to comply with 40 CFR 61 Subpart FF has been installed and that the required initial inspections or tests have been carried out in accordance with 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(1)]
- Submit report: Due within 90 days after January 7, 1993. Submit a certification that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in Subpart FF. [40 CFR 61.357(d)(1)]
- Submit report: Due annually, beginning on the date that equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit updates to the information listed in 40 CFR 61.357(e)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(d)(2)]
- Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]
- Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]
- Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]
- All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- 329 [40 CFR 61.148]
 330 [40 CFR 61.342(b)]
 331 [40 CFR 61.342(c)(1)(i)]
 332 [40 CFR 61.355]
 333 [40 CFR 61.356]
 334 [40 CFR 61.357(a)]
 335 [40 CFR 61.357(d)(1)]
 336 - [40 CFR 61.357(d)(1)].
 337 [40 CFR 61.357(d)(2)]
 338 [40 CFR 61.357(d)(6)]
 339 [40 CFR 61.357(d)(7)]
 340 [40 CFR 61.357(d)(8)]
 341 [40 CFR 61.]

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- 342 [40 CFR 63.1]
 343 [40 CFR 63.6(e)(3)]
- 344 [40 CFR 68.150]
- 345 [40 CFR 70.5(a)(1)(iii)]
 346 [40 CFR 70.6(a)(3)(iii)(A)]
- 347 [40 CFR 70.6(a)(3)(iii)(B)]
- 348 [40 CFR 70.6(c)(5)(iv)]
- 349 [40 CFR 82 Subpart F]
- 350 [LAC 33:III.1103]
- 351 [LAC 33:III.1109.B]
 352 [LAC 33:III.1303.B]
- 353 [LAC 33:III.2113.A]
 354 [LAC 33:III.219]
- 355 [LAC 33:III.501.C.6]
- All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. Develop and implement a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the relevant standard. Identify in the plan all routine or otherwise predictable CMS malfunctions, as required under 40 CFR 63.8(c)(1)(i). Develop the plan by the source's compliance date for that relevant standard. Incorporate by reference into the Title V permit. [40 CFR 63.6(e)(3)] Owner or operator shall prepare and submit a copy of the Risk Management Plan as specified in 40 CFR 68.150. The plan will be updated and resubmitted as appropriate.
- Submit Title V permit application for renewal: Due 6 months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. [40 CFR 70.6(a)(3)(iii)(B)]
- Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)] Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. Outdoor burning of waste material or other combustible material is prohibited. Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- Barium <= 0.01 tons/yr.
 Which Months: All Year Statistical Basis: Annual maximum

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356 [LAC 33:III.501.C.6]

357 [LAC 33:III.501.C.6]

358 [LAC 33:III.501.C.6]

359 [LAC 33:III.501.C.6]

360 [LAC 33:III.509]

361 [LAC 33:III.5105.A.1]

362 [LAC 33:III.5105.A.2]

363 [LAC 33:III.5105.A.3]

364 [LAC 33:III.5105.A.4]

365 [LAC 33:III.5107.A.2]

366 [LAC 33:III.5107.A]

367 [LAC 33:III.5107.B.1]

368 [LAC 33:III.5107.B.2]

Dinitrotoluene <= 0.07 tons/yr.

Which Months: All Year Statistical Basis: Annual maximum

Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HR VOC), which include 1,3-Butadiene, Butene, cis-2-Butene, trans-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene. (State Only).

Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only).

Zinc <= 0.04 tons/yr.

Which Months: All Year Statistical Basis: Annual maximum

Comply with the requirements of PSD-LA-523(M-1) for the Cogeneration Unit No. 1 and PSD-LA-613 for the Cogeneration Unit No. 2. This Permit includes provisions of the Prevention of Significant Deterioration (PSD) reviews from Permit PSD-LA-523(M-1) and PSD-LA-613.

Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B. Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.

Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. Submit Annual Emissions Report (TED): Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.

Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).

Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.

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Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:1.3931.

Submit notification in the manner provided in LAC 33:III.1.3923.

Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.

Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.

Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.

Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.

Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.

An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.

Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.

Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.

Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.

Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.

Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.

Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.

Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Office of Environmental Compliance.

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383 [LAC 33.III.5911.C]

Submit amended registration. Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.

384 [LAC 33.III.919.D] Submit Emission Inventory (EI) Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33.III.919.A-D.